



## **3200 RIO LINDA BOULEVARD GAS STATION PROJECT (P22-021)**

### **INITIAL STUDY/ MITIGATED NEGATIVE DECLARATION FOR ANTICIPATED SUBSEQUENT PROJECTS UNDER THE 2035 GENERAL PLAN MASTER EIR**

This Initial Study has been prepared by the City of Sacramento, Community Development Department, 300 Richards Boulevard, Third Floor, Sacramento, CA 95811, pursuant to the California Environmental Quality Act (Public Resources Code Sections 21000 *et seq.*), CEQA Guidelines (Title 14, Section 15000 *et seq.* of the California Code of Regulations) and the Sacramento Local Environmental Regulations (Resolution 91-892) adopted by the City of Sacramento.

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#### **ORGANIZATION OF THE INITIAL STUDY**

This Initial Study is organized into the following sections:

**SECTION I - BACKGROUND:** Provides summary background information about the Project name, location, sponsor, and the date this Initial Study was completed.

**SECTION II - PROJECT DESCRIPTION:** Includes a detailed description of the proposed Project.

**SECTION III - ENVIRONMENTAL CHECKLIST AND DISCUSSION:** Reviews proposed Project and states whether the Project would have additional significant environmental effects (Project-specific effects) that were not evaluated in the Master EIR for the 2035 General Plan.

**SECTION IV - ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:** Identifies which environmental factors were determined to have additional significant environmental effects.

**SECTION V - DETERMINATION:** States whether environmental effects associated with development of the proposed Project are significant, and what, if any, added environmental documentation may be required.

**REFERENCES CITED:** Identifies source materials used in the preparation of the Initial Study.

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**SECTION I - BACKGROUND**

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Project Name and File Number: 3200 Rio Linda Boulevard Gas Station Project (P22-021)

Project Location: 3200 Rio Linda Boulevard  
Sacramento, CA 95815  
(APN) 251-0292-016

Project Applicant: Sarita Prasad  
427 Santa Ana Avenue  
Sacramento, CA 95738

Project Planner: Jose Quintanilla, Associate Planner  
Community Development Department  
City of Sacramento  
300 Richards Blvd, 3rd Floor  
Sacramento, CA 95811

Environmental Planner: Ron Bess, Associate Planner  
Community Development Department  
City of Sacramento  
300 Richards Blvd, 3rd Floor  
Sacramento, CA 95811

Date Initial Study Completed: August 2023

This Initial Study was prepared in accordance with the California Environmental Quality Act (CEQA) (Public Resources Code Sections 1500 *et seq.*). The Lead Agency is the City of Sacramento.

The City of Sacramento, Community Development Department, has reviewed the proposed Project and, on the basis of the whole record before it, has determined that the proposed Project is an anticipated subsequent Project identified and described in the 2035 General Plan Master EIR and is consistent with the land use designation and the permissible densities and intensities of use for the Project site as set forth in the 2035 General Plan. See CEQA Guidelines Section 15176 (b) and (d).

The City has prepared the attached Initial Study to review the discussions of cumulative impacts, growth inducing impacts, and irreversible significant effects in the 2035 General Plan Master EIR to determine their adequacy for the Project (CEQA Guidelines Section 15178(b),(c)) and identify any potential new or additional Project-specific significant environmental effects that were not analyzed in the Master EIR and any mitigation measures or alternatives that may avoid or mitigate the identified effects to a level of insignificance, if any.

As part of the Master EIR process, the City is required to incorporate all feasible mitigation measures or feasible alternatives appropriate to the Project as set forth in the Master EIR (CEQA Guidelines Section 15177(d)) Policies included in the 2035 General Plan that reduce significant impacts identified in the Master EIR are identified and discussed. See also the Master EIR for the 2035 General Plan. The mitigation monitoring plan for the 2035 General Plan, which provides references to applicable general plan policies that reduce the environmental effects of development that may occur consistent with the general plan, is included in the adopting resolution for the Master EIR. See City Council Resolution Number 2015-0060, beginning on page 60. The resolution is available at

<http://portal.cityofsacramento.org/Community-Development/Planning/Environmental/Impact-Reports.aspx>.

This analysis incorporates by reference the general discussion portions of the 2035 General Plan Master EIR. (CEQA Guidelines Section 15150(a)). The Master EIR is available for public review at the City of Sacramento's web site at:

<http://www.cityofsacramento.org/Community-Development/Planning/Environmental/Impact-Reports.aspx>

The City is soliciting views of interested persons and agencies on the content of the environmental information presented in this document. Written comments should be sent at the earliest possible date, but no later than the 30-day review period ending October 2, 2023.

Please send written responses to:

Ron Bess, Associate Planner  
Community Development Department  
City of Sacramento  
300 Richards Blvd, 3<sup>rd</sup> Floor  
Sacramento, CA 95811  
Direct Line: (916) 808-8272  
RBess@cityofsacramento.org

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**SECTION II - PROJECT DESCRIPTION**

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**INTRODUCTION**

**PROJECT LOCATION**

The proposed Project is located at 3200 Rio Linda Boulevard in the City of Sacramento, California 95815 (Figure 1. Project Vicinity). The proposed Project site is within an urbanized portion of the City and is located on a developed parcel that contains a former gas station that is no longer functional (APN: 251-0292-016). Rio Linda Boulevard and Arcade Boulevard are both major collector roadways that border the western and southern boundaries of the proposed Project area, respectively.

The proposed Project site is located within the North Sacramento Community Plan Area. The 2035 General Plan identifies the land use designation within the Project area as Suburban Center Low and is zoned as C-2 – General Commercial (Figure 2. Land Use and Figure 3. Zoning).

**PROJECT DESCRIPTION**

The proposed Project is the redevelopment of an existing gas station that was previously taken out of operation. The retail building was abandoned due to fire damage. The new construction is the rebuild and replacement of the former gas station, its retail building, and its enclosures. The gas equipment enclosure is approximately 1,000 square feet with four gas pumps for the sale of gasoline only. No diesel sales are proposed. The retail building is approximately 2,000 square feet. The redevelopment also entails other small site improvements such as installing parking stalls, an accessible path of travel to the right-of-way, trash enclosure, site lighting, landscaping, and various physical repairs to structures.

The proposed hours of operation for the gas station would be from 7 AM to 10 PM, 7 days per week. The hours of operation for the retail building have not yet been determined but would likely be similar to the hours of operation for the gas station.

The exterior lighting levels would be enough to ensure the safety of the facility, but to not provide glare or excessive light spillage onto adjacent properties or the public right-of-way.

**Attachments**

Figure 1 - Vicinity Map

Figure 2 - Land Use

Figure 3 - Zoning

Figure 4 - Site Plan

**Appendices**

Appendix A – Air Quality Report

Appendix B – Biological Resources Assessment

Appendix C – Wetland Memo

Appendix D – Cultural Report

Appendix E – Phase 1 ESA

Appendix F – Caltrans Unknown Hazard Procedures, Construction Manual 2006

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**SECTION III – ENVIRONMENTAL CHECKLIST AND DISCUSSION**

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**LAND USE, POPULATION AND HOUSING, AGRICULTURAL RESOURCES**

**Introduction**

The California Environmental Quality Act (CEQA) requires the Lead Agency to examine the effects of a Project on the physical conditions that exist within the area that would be affected by the Project. CEQA also requires a discussion of any inconsistency between the proposed Project and applicable general plans and regional plans.

An inconsistency between the proposed Project and an adopted plan for land use development in a community would not constitute a physical change in the environment. When a Project diverges from an adopted plan, however, it may affect planning in the community regarding infrastructure and services, and the new demands generated by the Project may result in later physical changes in response to the Project.

In the same manner, the fact that a Project brings new people or demand for housing to a community does not, by itself, change the physical conditions. An increase in population may, however, generate changes in retail demand or demand for governmental services, and the demand for housing may generate new activity in residential development. Physical environmental impacts that could result from implementing the proposed Project are discussed in the appropriate technical sections.

This section of the initial study identifies the applicable land use designations, plans and policies, and permissible densities and intensities of use, and discusses any inconsistencies between these plans and the proposed Project. This section also discusses agricultural resources and the effect of the Project on these resources.

**Discussion**

**Land Use**

The proposed Project site has been designated as **Suburban Center** in the 2035 General Plan, and is zoned as C-2 – General Commercial. The adjacent parcels to the east and south are low and high density residential, respectively. The parcel across Rio Linda Boulevard to the west is an active church. A levee for Arcade Creek is adjacent to the north of the site. The parcels surrounding the Project to the east, south, west and north are zoned as R-1 Single Family Residential, R-2B Multi Family, C2 – General Commercial, and F – Flood, respectively. The surrounding land uses are Suburban Neighborhood Low Density, Suburban Neighborhood High Density, and Parks and Recreation.

The proposed Project site is located in an urbanized portion of the community within the North Sacramento Community Plan Area. The Project is not located within any supplemental Opportunity Areas. Development of the site as proposed would alter the existing landscape, but the Project site has been designated for urban development in the 2035 General Plan and the Planning and Development Code, and the proposed development is consistent with these planning designations.

As outlined in the Sacramento City Code Title 17.216 of the Planning and Development Code Division II Zoning Districts and Land Use Regulations, C-2 Zone – General Commercial Zone is used to provide for the sale of goods, the performance of services, and limited processing and packaging. The proposed Project is consistent with C-2 zoning designation since the retail building and other amenities, such as the gas station, will be used for commercial purposes. The proposed Project would not impact the City's land use and planning objectives.

**Population and Housing**

The proposed Project would include the rehabilitation of a retail building shell, a gas station and enclosure, and site improvements. The Project site is located in a developed area and would not include

the extension of major infrastructure. Given the nature and scale of the development proposed, the Project would not be anticipated to create a large number of jobs or result in a large influx of new residents to the Project area. Rather, the Project is intended to serve the needs of the existing residences in the site vicinity. In addition, the proposed Project site does not contain any existing residences. As such, the proposed Project would not displace a substantial number of existing housing or people and would not necessitate the construction of replacement housing elsewhere. The proposed Project would not result in impacts related to population and housing.

### **Agricultural Resources**

The Master EIR discussed the potential impact of development under the 2035 General Plan on agricultural resources. See Master EIR, Chapter 4.1. In addition to evaluating the effect of the general plan on sites within the City, the Master EIR noted that to the extent the 2035 General Plan accommodates future growth within the City limits, the conversion of farmland outside the City limits is minimized. The Master EIR concluded that the impact of the 2035 General Plan on agricultural resources within the City was less than significant.

According to the NRCS Soil Survey Report, soils within the Project site contains are designated as Urban and Built-Up Land (DOC 2023). The Project site does not contain soils designated as Important Farmland (i.e., Prime Farmland, Unique Farmland or Farmland of Statewide Importance). (NRCS 2023). The site is not zoned for agricultural uses, and there are no Williamson Act contracts that affect the Project site. No existing agricultural or timber-harvest uses are located on or in the vicinity of the Project site. Development of the site would result in no impact on agricultural resources.

### **Wildfire**

The Master EIR does not identify any significant impacts related to wildfire risk. Per the CalFire and Resources Assessment Program (FRAP), the City is located within a Local Responsibility Area (LRA). The City is not located within or adjacent to a State Responsibility Area (SRA) or a designated Very High Fire Hazard Severity Zone (VHFHSZ). Furthermore, the Project site is located within a developed area where a substantial wildland-urban interface does not exist. Thus, the risk of wildfire at the Project site is minimal. Based on the above, the proposed Project would not create a substantial fire risk for existing development in the Project vicinity.

**1. AESTHETICS**

| Issues:   | Effect will be studied in the EIR | Effect can be mitigated to less than significant | No additional significant environmental effect |
|---|-----------------------------------|--|--|
| 1. <u>AESTHETICS</u><br>Would the proposal:<br><br>A) Create a source of glare that would cause a public hazard or annoyance? |                                   |  | X  |
| B) Create a new source of light that would be cast onto oncoming traffic or residential uses?                                 |                                   |  | X  |
| C) Substantially degrade the existing visual character of the site or its surroundings?                                       |                                   |  | X  |

**ENVIRONMENTAL SETTING**

The proposed Project is located at 3200 Rio Linda Boulevard, at the intersection of Rio Linda Boulevard and Arcade Boulevard (Figure 1). Both streets are major collector roadways. Land use in the vicinity is characterized as Suburban Center and Suburban Neighborhood Low and High Density (Figure 2). Local topography is relatively flat.

Existing conditions in the vicinity include roads, sidewalks, streetlamps, and Arcade Creek to the north of the site. Vegetation within the Project vicinity is mostly comprised of various ornamental grasses and trees used in landscaping. Public views of the Project site include views from motorists, bicyclists, and pedestrians travelling on Rio Linda Boulevard and Arcade Boulevard, and residents who live in the area.

The Project site does not contain any scenic resources and is not contained within an area designated as a scenic resource or vista. Additionally, no scenic roadways are within or adjacent to the proposed Project site.

**STANDARDS OF SIGNIFICANCE**

The significance criteria used to evaluate the Project impacts to aesthetics are based on Appendix G of the California Environmental Quality Act (CEQA) Guidelines, thresholds of significance adopted by the City in applicable general plans and previous environmental documents, and professional judgment. A significant impact related to aesthetics would occur if the Project would:

- substantially interfere with an important scenic resource or substantially degrade the view of an existing scenic resource; or
- create a new source of substantial light or glare that is substantially greater than typical urban sources and could cause sustained annoyance or hazard for nearby sensitive receptors.

**SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES**

The Master EIR described the existing visual conditions in the general plan City of Sacramento, and the potential changes to those conditions that could result from development consistent with the 2035 General Plan. See Master EIR, Chapter 4.13, Visual Resources.

The Master EIR identified potential impacts for light and glare (Impact 4.13-1) and concluded that impacts would be less than significant.

**ANSWERS TO CHECKLIST QUESTIONS**

Based on a field review by Soar Environmental, information provided by the applicant, existing information available to Soar Environmental, and observations made on the Project site and in the vicinity, the following findings can be made:

- A) Would the Project create a source of glare that would cause a public hazard or annoyance?

No additional significant environmental effect. The Project proposes to rehabilitate the former gas station onsite. During operation, there would be minimal change to existing light sources in the vicinity. The Project proposes new site lighting but would be designed to not provide glare or excessive light spillage onto adjacent properties or the public right-of-way. As such, the Project would not create a source of glare that would cause a public hazard or annoyance. Although the proposed Project would result in an increase to the existing light sources during construction, the effects would be considered minimal, considering the existing urban, residential, and commercial uses of the surrounding area.

- B) Would the Project create a new source of light that would be cast onto oncoming traffic or residential uses?

No additional significant environmental effect. As mentioned above, lighting already exists throughout the Project vicinity since it's located in a highly urbanized area.

- C) Would the Project substantially degrade the existing visual character of the site or its surroundings?

No additional significant environmental effect. Visually sensitive public locations include vantage points where a change affecting a scenic resource or the visibility of a scenic resource would affect the general public. Visually sensitive public locations within the City include major natural open space features such as the American River and Sacramento River, as well as important scenic resources including the State Capitol and historic landmarks such as the Old Sacramento Waterfront.

The proposed Project is located within an urbanized area. The proposed Project site is currently zoned C2 – General Commercial, which is similar to the parcel to the west of the proposed Project site and is within close proximity to residences and Arcade Creek. Construction and operation of the proposed Project would not substantially change the visual character of the area. Because the proposed Project is consistent with the General Plan, impacts related to aesthetics have been evaluated within the General Plan EIR. With adherence to General Plan policies, the development of the Project is not anticipated to substantially alter the existing visual character of the landscape. Therefore, the proposed Project would not conflict with the applicable zoning and other regulations governing scenic quality.

**MITIGATION MEASURES**

None.

**FINDINGS**

The Project would have no additional Project-specific environmental effects relating to Aesthetics.

**2. AIR QUALITY**

| Issues:   | Effect will be studied in the EIR | Effect can be mitigated to less than significant | No additional significant environmental effect |
|---|-----------------------------------|--|--|
| 2. <u>AIR QUALITY</u><br>Would the proposal:<br><br>A) Result in construction emissions of NOx above 85 pounds per day?   |                                   |  | X  |
| B) Result in operational emissions of NOx or ROG above 65 pounds per day?   |                                   |  | X  |
| C) Violate any air quality standard or have a cumulatively considerable contribution to an existing or Projected air quality violation?                         |                                   |  | X  |
| D) Result in PM10 and PM2.5 concentrations that exceed SAMQMD requirements?   |                                   | X  |  |
| E) Result in CO concentrations that exceed the 1-hour state ambient air quality standard (i.e., 20.0 ppm) or the 8-hour state ambient standard (i.e., 9.0 ppm)? |                                   |  | X  |
| F) Result in exposure of sensitive receptors to substantial pollutant concentrations?   |                                   |  | X  |
| G) Result in TAC exposures create a risk of 10 in 1 million for stationary sources, or substantially increase the risk of exposure to TACs from mobile sources? |                                   |  | X  |

**ENVIRONMENTAL SETTING**

The City of Sacramento is located within the Sacramento Valley Air Basin (SVAB), which is a valley bounded by the North Coast Mountain Ranges to the west and the Northern Sierra Nevada Mountains to the east. The terrain in the valley is flat and approximately 25 feet above sea level.

Hot, dry summers and mild, rainy winters characterize the Mediterranean climate of the Sacramento Valley. Throughout the year, daily temperatures may range by 20 degrees Fahrenheit with summer highs often exceeding 100 degrees and winter lows occasionally below freezing. Average annual rainfall is about 20 inches and snowfall is very rare. Summertime temperatures are normally moderated by the presence of the "Delta breeze" that arrives through the Carquinez Strait in the evening hours.

The mountains surrounding the SVAB create a barrier to airflow, which can trap air pollutants in the valley. The highest frequency of air stagnation occurs in the autumn and early winter when large high-pressure cells lie over the valley. The lack of surface wind during these periods and the reduced vertical flow caused by less surface heating reduces the influx of outside air and allows air pollutants to become concentrated in a stable volume of air. The surface concentrations of pollutants are highest when these conditions are combined with temperature inversions that trap cooler air and pollutants near the ground.

The warmer months in the SVAB (May through October) are characterized by stagnant morning air or light winds, and the Delta breeze that arrives in the evening out of the southwest. Usually, the evening

breeze transports a portion of airborne pollutants to the north and out of the Sacramento Valley. During about half of the day from July to September, however, a phenomenon called the “Schultz Eddy” prevents this from occurring. Instead of allowing the prevailing wind patterns to move north carrying the pollutants out of the valley, the Schultz Eddy causes the wind pattern to circle back south. This phenomenon exacerbates the pollution levels in the area and increases the likelihood of violating Federal or State standards. The Schultz Eddy normally dissipates around noon when the Delta breeze begins.

**Criteria Air Pollutants**

Concentrations of emissions from criteria air pollutants (the most prevalent air pollutants known to be harmful to human health) are used to indicate the quality of the ambient air. Criteria air pollutants include ozone, carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), sulfur dioxide (SO<sub>2</sub>), respirable and fine particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>), and lead. The sources of criteria air pollutants and their respective acute and chronic health impacts are described in Table 3-1.

**Table 3-1 Sources and Health Effects of Criteria Air Pollutants**

| <b>Pollutant</b>  | <b>Sources</b>   | <b>Acute<sup>1</sup> Health Effects</b>   | <b>Chronic<sup>2</sup> Health Effects</b>  |
|---|--|---|--|
| Ozone   | Secondary pollutant resulting from reaction of ROG and NO <sub>x</sub> in presence of sunlight. ROG emissions result from incomplete combustion and evaporation of chemical solvents and fuels; NO <sub>x</sub> results from the combustion of fuels | Increased respiration and pulmonary resistance; cough, pain, shortness of breath, lung inflammation   | Permeability of respiratory epithelia, possibility of permanent lung impairment  |
| Carbon monoxide (CO)  | Incomplete combustion of fuels; motor vehicle exhaust  | Headache, dizziness, fatigue, nausea, vomiting, death   | Permanent heart and brain damage   |
| Nitrogen dioxide (NO <sub>2</sub> )   | Combustion devices; e.g., boilers, gas turbines, and mobile and stationary reciprocating internal combustion engines   | Coughing, difficulty breathing, vomiting, headache, eye irritation, chemical pneumonitis or pulmonary edema; breathing abnormalities, cough, cyanosis, chest pain, rapid heartbeat, death | Chronic bronchitis, decreased lung function                                      |
| Sulfur dioxide (SO <sub>2</sub> )   | Coal and oil combustion, steel mills, refineries, and pulp and paper mills   | Irritation of upper respiratory tract, increased asthma symptoms  | Insufficient evidence linking SO <sub>2</sub> exposure to chronic health impacts |
| Respirable particulate matter (PM <sub>10</sub> ), Fine particulate matter (PM <sub>2.5</sub> ) | Fugitive dust, soot, smoke, mobile and stationary sources, construction, fires and natural windblown dust, and formation in the Atmosphere by condensation and/or transformation of SO <sub>2</sub> and ROG  | Breathing and respiratory symptoms, aggravation of existing respiratory and cardiovascular diseases, Premature death  | Alterations to the immune system, carcinogenesis                                 |
| Lead  | Metal processing   | Reproductive/developmental effects (fetuses and children)   | Numerous effects including neurological, endocrine, and cardiovascular effects   |

Notes: NO<sub>x</sub> = oxides of nitrogen; ROG = reactive organic gases.

1. “Acute” refers to effects of short-term exposures to criteria air pollutants, usually at fairly high concentrations.

2. "Chronic" refers to effects of long-term exposures to criteria air pollutants, usually at lower, ambient concentrations.

Source: EPA 2018

### ***Existing Air Quality***

The U.S. Environmental Protection Agency (EPA) has been charged with implementing national air quality programs. EPA's air quality mandates are drawn primarily from the federal Clean Air Act (CAA), which was enacted in 1970 and most recently amended by Congress in 1990. The CAA required EPA to establish the National Ambient Air Quality Standards (NAAQS) for the following criteria air pollutants: ozone, CO, NO<sub>2</sub>, SO<sub>2</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>, and lead. CAA also requires each State to prepare a State implementation plan (SIP) for attaining and maintaining the NAAQS. The federal Clean Air Act Amendments of 1990 (CAAA) added requirements for states with nonattainment areas to revise their SIPs to incorporate additional control measures to reduce air pollution. Individual SIPs are modified periodically to reflect the latest emissions inventories, planning documents, and rules and regulations of the air basins as reported by their jurisdictional agencies.

The California Air Resources Board (CARB) is the agency responsible for coordination and oversight of State and local air pollution control programs in California and for implementing the California Clean Air Act (CCAA). The CCAA, which was adopted in 1988, required CARB to establish its own California Ambient Air Quality Standards (CAAQS). CARB has established CAAQS for sulfates, hydrogen sulfide, vinyl chloride, visibility-reducing particulate matter, and the above-mentioned criteria air pollutants. In most cases the CAAQS are more stringent than the NAAQS.

The SVAB is currently designated as nonattainment for the NAAQS 8-hour ozone standard and the CAAQS for both 1-hour and 8-hour O<sub>3</sub> standard. The SVAB is also currently designated as nonattainment for both NAAQS and CAAQS 24-hour PM<sub>10</sub> standards. In addition, the SVAB is currently designated as nonattainment for the NAAQS 24-hour PM<sub>2.5</sub> standard. The air basin is designated as unclassified or in attainment for the remaining criteria air pollutants (SMAQMD 2019).

### ***Toxic Air Contaminants***

According to the California Almanac of Emissions and Air Quality (CARB 2013), the majority of the estimated health risks from toxic air contaminants (TACs) can be attributed to relatively few compounds, the most important being diesel particulate matter (diesel PM). Diesel PM differs from other TACs in that it is not a single substance, but rather a complex mixture of hundreds of substances. Although diesel PM is emitted by diesel-fueled internal combustion engines, the composition of the emissions varies depending on engine type, operating conditions, fuel composition, lubricating oil, and whether an emissions control system is being used. In addition to diesel PM, the TACs for which data are available that pose the greatest existing ambient risk in California are benzene, 1,3-butadiene, acetaldehyde, carbon tetrachloride, hexavalent chromium, para-dichlorobenzene, formaldehyde, methylene chloride, and perchloroethylene.

### ***Sensitive Receptors***

Sensitive receptors are generally considered to include those land uses where exposure to pollutants could result in health-related risks to sensitive individuals, such as children or the elderly. Residential dwellings, schools, hospitals, playgrounds, and similar facilities are of primary concern because of the presence of individuals particularly sensitive to pollutants and/or the potential for increased and prolonged exposure of individuals to pollutants. The nearest sensitive receptors are the single-family residences adjacent to the property to the east and south. A church is located adjacent to the west. The nearest school to the Project site is Martin Luther King Jr. Technological Academy located approximately 0.33 miles southeast of the Project site.

## **STANDARDS OF SIGNIFICANCE**

For purposes of this Initial Study, air quality impacts may be considered significant if construction and/or implementation of the proposed Project would result in the following impacts that remain significant after implementation of 2035 General Plan policies:

- Construction emissions of NO<sub>x</sub> above 85 pounds per day;
- Operational emissions of NO<sub>x</sub> or ROG above 65 pounds per day;
- Violation of any air quality standard or contribute substantially to an existing or Projected air quality violation;
- Any increase in PM<sub>10</sub> concentrations, unless all feasible Best Available Control Technology (BACT) and Best Management Practices (BMPs) have been applied, then increases above 80 pounds per day or 14.6 tons per year. Any increase in PM<sub>2.5</sub> concentrations, unless all feasible BACT and BMPs have been applied, then increases above 82 pounds per day or 15 tons per year;
- CO concentrations that exceed the 1-hour State ambient air quality standard (i.e., 20.0 ppm) or the 8-hour State ambient standard (i.e., 9.0 ppm); or
- Exposure of sensitive receptors to substantial pollutant concentrations.

Ambient air quality standards have not been established for toxic air contaminants (TAC). TAC exposure is deemed to be significant if:

- TAC exposures create a risk of 10 in 1 million for stationary sources, or substantially increase the risk of exposure to TACs from mobile sources.

**SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES**

The Master EIR addressed the potential effects of the 2035 General Plan on ambient air quality and the potential for exposure of people, especially sensitive receptors such as children or the elderly, to unhealthy pollutant concentrations. See Master EIR, Chapter 4.2.

Policies in the 2035 General Plan in Environmental Resources were identified as mitigating potential effects of development that could occur under the 2035 General Plan. For example, Policy ER 6.1.1 calls for the City to work with the California Air Resources Board and the Sacramento Metropolitan Air Quality Management District (SMAQMD) to meet state and federal air quality standards; Policy ER 6.1.2 requires the City to review proposed development Projects to ensure that the Projects incorporate feasible measures that reduce construction and operational emissions; Policy ER 6.1.4 and ER 6.1.11 calls for coordination of City efforts with SMAQMD; and Policy ER 6.1.15 requires the City to give preference to contractors using reduced-emission equipment.

The Master EIR identified exposure to sources of toxic air contaminants (TAC) as a potential effect. Policies in the 2035 General Plan would reduce the effect to a less-than-significant level. The policies include ER 6.1.4, requiring coordination with SMAQMD in evaluating exposure of sensitive receptors to TACs, and impose appropriate conditions on Projects to protect public health and safety; as well as Policy LU 2.7.5 requiring extensive landscaping and trees along freeways fronting elevation and design elements that provide proper filtering, ventilation, and exhaust of vehicle air emissions from buildings.

**ANSWERS TO CHECKLIST QUESTIONS**

- A) Result in construction emissions of NO<sub>x</sub> above 85 pounds per day?

**No significant additional environmental effect.** Construction emissions for the proposed Project were estimated using CalEEMod version 2020.4. The modelling assumptions, inputs, and output file can be found in Appendix A of this document. The results of the modelling show that construction of the Project would result in up to 0.33 tons of NO<sub>x</sub> annually (or 1.78 pounds of NO<sub>x</sub> per day on average). Therefore,

construction of the proposed Project would not result in excess of 85 pounds of NOx per day. The Project would have no additional significant effects that were not evaluated in the Master EIR.

B) Result in operational emissions of NOx or ROG above 65 pounds per day?

**No significant additional environmental effect.** Operational emissions for the proposed Project were estimated using CalEEMod version 2020.4. The modelling assumptions, inputs, and output file can be found in Appendix A. The results of the modelling show that operational emissions resulting from the Project would result in up to 0.51 tons of NOx annually (2.79 pounds per day on average), and 0.69 tons of ROG annually (3.78 pounds per day on average). Therefore, operational emissions as a result of the proposed Project would not result in excess of 65 pounds per day. The Project would have no additional significant effects that were not evaluated in the Master EIR.

C) Violate any air quality standard or have a cumulatively considerable contribution to an existing or Projected air quality violation?

**No significant additional environmental effect.** The proposed Project’s daily and annual emissions of criteria air pollutants during construction and operation are shown in Table 3-2 and Table 3-3. All projected emissions are within the SMAQMD thresholds of significance. Accordingly, the proposed Project would not violate any air quality standard or contribute substantially to an existing or projected air quality violation, and the Project would have no additional significant effects that were not evaluated in the Master EIR.

**TABLE 3-2 PROJECT CONSTRUCTION EMISSIONS (UNMITIGATED)**

| CONSTRUCTION YEAR | NO <sub>x</sub> (PPD) | PM <sub>10</sub> (TPY) | PM <sub>2.5</sub> (TPY) |
|-------------------|-----------------------|------------------------|-------------------------|
| 2024              | 0.3326                | 0.0238                 | 0.0176                  |
| SMAQMD Thresholds | 85                    | 14.6                   | 15                      |
| Maximum Emissions | 2.9                   | 0.1                    | 0.1                     |
| Significant       | No                    | No                     | No                      |

NOTES:

NO<sub>x</sub> is the oxides of nitrogen; PM<sub>2.5</sub> is the particulate matter 2.5 microns or less in diameter; PM<sub>10</sub> is the particulate matter 10 microns or less in diameter; SMAQMD is the Sacramento Metropolitan Air Quality Management District; tpy is the tons per year

1. Project construction emissions estimates were made using the California Emissions Estimator Model, Version 2020.4.0. See Appendix A for model outputs and more detailed assumptions.
2. SMAQMD has established a zero-emissions threshold for PM10 and PM2.5 when projects do not implement SMAQMD’s Best Available Practices.

SOURCES:

Data compiled by Soar Environmental Consulting in 2023; Sacramento Metropolitan Air Quality Management District, 2023. *Guide to Air Quality Assessment*. Adopted December 2009, most recently updated April 2021.

**TABLE 3-3 PROJECT OPERATIONAL EMISSIONS (UNMITIGATED)**

| Source            | ROG (tpy) | PM <sub>10</sub> (tpy) | PM <sub>2.5</sub> (tpy) |
|-------------------|-----------|------------------------|-------------------------|
| Area              | 0.0120    | 0.0000                 | 0.0000                  |
| Mobile            | 0.6784    | 0.4581                 | 0.1254                  |
| Total Emissions   | 0.6904    | 0.4581                 | 0.1254                  |
| SMAQMD Thresholds | 11.8625   | 14.6                   | 15                      |
| Significant       | No        | No                     | No                      |

NOTES:

ROG is reactive organic gases; PM<sub>2.5</sub> is the particulate matter 2.5 microns or less in diameter; PM<sub>10</sub> is the particulate matter 10 microns or less in diameter; SMAQMD is the Sacramento Metropolitan Air Quality Management District; tpy is the tons per year

1. Project construction emissions estimates were made using the California Emissions Estimator Model, Version 2020.4.0. See Appendix A for model outputs and more detailed assumptions.
2. SMAQMD has established a zero-emissions threshold for PM10 and PM2.5 when projects do not implement SMAQMD’s Best Available Practices.

SOURCES:

Data compiled by Soar Environmental Consulting in 2023; Sacramento Metropolitan Air Quality Management District, 2023. *Guide to Air Quality Assessment*. Adopted December 2009, most recently updated April 2021.

- D) Violate any air quality standard or have a cumulatively considerable contribution to an existing or Projected air quality violation?

**Effect can be mitigated to less than significant.** The SMAQMD thresholds of significance for PM includes the following and apply to both construction and operational emissions:

- PM10: Zero (0). IF all feasible BACT/BMPs are implemented, then 80 lbs/day and 14.6 tons/year
- PM2.5: Zero (0). IF all feasible BACT/BMPs are implemented, then 82 lbs/day and 15 tons/year

Construction emissions for the proposed Project were estimated using CalEEMod version 2020.4. The modelling assumptions, inputs, and output file can be found in Appendix A. The results of the modelling show that construction of the proposed Project would result in 0.02 tons annually (0.12 pounds per day on average) of PM10 emissions and 0.02 tons annually (0.12 pounds per day on average) of PM2.5 emissions. Operational emissions of the proposed Project would result in 0.46 tons annually (2.52 pounds per day on average) of PM10 emissions and 0.13 tons annually (0.71 pounds per day on average) of PM2.5 emissions. With adherence to standard BMPs required with SMAQMD, as described in measure AQ-1, the proposed Project would not result in PM10 or PM2.5 concentrations that exceed SMAQMD requirements.

- E) Result in CO concentrations that exceed the 1-hour state ambient air quality standard (i.e., 20.0 ppm) or the 8-hour state ambient standard (i.e., 9.0 ppm)?

**No significant additional environmental effect.** Localized concentrations of CO, or “hot spots,” are primarily of concern for heavily congested roadways with stop-and-go traffic, particularly in areas with limited vertical mixing such as tunnels, long underpasses, or below-grade roadways. While the proposed Project would result in the rehabilitation of a retail building shell and a gas station and enclosure on a developed parcel in an urban area that may generate additional traffic on adjacent roadways, the impact would not be to a significant degree such that roadways would congest and cause an exceedance of the state’s 1-hour state ambient air quality standard for CO concentrations. The Project would have no additional significant effects that were not evaluated in the Master EIR.

- F) Result in exposure of sensitive receptors to substantial pollutant concentrations?

**No significant additional environmental effect.** Although construction of the Project would result in associated air pollutants, these increases are not concentrated and are well below significance thresholds as shown in the discussion above. Construction activities would be short term and intermittent in nature and would not expose sensitive receptors to substantial pollutant concentrations. In addition, adherence to standard dust control and construction BMPs would be required as part of the Project’s Construction Management Plan.

The structures and amenities built by this Project would be consistent with current safety code and would not result in operational emissions that would expose sensitive receptors to long-term substantial pollutant concentrations as shown in the discussion above. The Project would have no additional significant effects that were not evaluated in the Master EIR.

- G) Result in TAC exposures create a risk of 10 in 1 million for stationary sources, or substantially increase the risk of exposure to TACs from mobile sources?

**No significant additional environmental effect.** The primary source for TACs typically result from diesel particulate matter (DPM) emitted from off-road equipment and on-road trucks. The proposed Project is the rehabilitation of a new retail building shell and a gas station and enclosure, which would not facilitate an increase in off-road equipment use or truck traffic.

Another source of TACs is gasoline vapors from fueling operations. Gasoline vapors include several substances considered toxic air contaminants by the state of California, including benzene, toluene, and a gasoline additive known as MTBE (methyl tertiary-butyl ether). The California Air Resources Board

(CARB) led the effort to certify gasoline vapor control systems and require their use starting in 1974. In 1990 the federal Clean Air Act amendments included requirements that vapor recovery systems at gas stations use CARB-certified equipment. The SMAQMD requires gasoline fueling stations to install and maintain vapor recovery systems. Within 30 calendar days of completion of construction or modification of any vapor recovery system, the operator must conduct and pass all applicable performance tests to receive a use permit. Reverification tests are required annually to maintain the use permit.

The 2022 CARB & CAPCOA Gasoline Service Station Industrywide Risk Assessment Look-up Tool provides estimated values for cancer risk and hazard index. These estimations are based on annual gasoline throughput, distance to sensitive receptors, and other similar factors. The proposed Project would not exceed 50,000 gallons of throughput annually. The results from this calculation can be seen in Table 3-4.

**TABLE 3-4 2022 CARB & CAPCOA GASOLINE SERVICE STATION INDUSTRYWIDE RISK ASSESSMENT**

| Risk Value                                    | Results |
|---|---------|
| Max Residential Cancer Risk (chances/million) | 0.19    |
| Max Worker Cancer Risk (chances/million)      | 0.01    |
| Chronic Hazard Index                          | 0.00    |
| Acute Hazard Index                            | 0.36    |

Source: 2022 CARB & CAPCOA Gasoline Service Station Industrywide Risk Assessment Look-up Tool, Version 1.0 – February 18, 2022, available at <https://ww2.arb.ca.gov/resources/documents/gasoline-service-stationindustrywide-risk-assessment-guidance>, accessed on August 11, 2023.

As shown in Table 3-4, the proposed Project would not exceed a 10 in 1 million cancer risk from fueling operations. Therefore, the proposed Project would not substantially increase the risk of exposure to TACs from mobile sources. The Project would have no additional significant effects that were not evaluated in the Master EIR.

**MITIGATION MEASURES**

**AQ-1:** Implement SMAQMD Basic and Enhanced Construction Emission Control Practices to Reduce Fugitive Dust. The implementing agency will require, as a standard or specification of their contract, the construction contractor(s) to implement basic and enhanced control measures to reduce construction-related fugitive dust. Although the following measures are outlined in the SMAQMD’s CEQA guidelines, they are required for the entirety of the construction area. The implementing agency will ensure through contract provisions and specifications that the contractor adheres to the mitigation measures before and during construction and documents compliance with the adopted mitigation measures.

- Water all exposed surfaces two times daily. Exposed surfaces include (but are not limited to) soil piles, graded areas, unpaved parking areas, staging areas, and access roads.
- Cover or maintain at least 2 feet of freeboard space on haul trucks transporting soil, sand, or other loose material on the site. Any haul trucks that would be traveling along freeways or major roadways should be covered.
- Use wet power vacuum street sweepers to remove any visible trackout mud or dirt onto adjacent public roads at least once a day. Use of dry power sweeping is prohibited.
- Limit vehicle speeds on unpaved roads to 15 miles per hour.
- All roadway, driveway, sidewalk, and parking lot paving should be completed as soon as possible. In addition, building pads should be laid as soon as possible after grading unless seeding or soil binders are used.

**AQ- 2:** In accordance with the SMAQMD's CEQA Guidance, all Projects undergoing environmental review should implement the Tier 1 BMPs – even if they do not exceed the operational screening table in Chapter 4 of the CEQA guide.

- BMP 1 – Projects shall be designed and constructed without natural gas infrastructure.

If Project greenhouse gas emissions are over the 1,100 metric tons CO<sub>2</sub>e/year after the Project applied Tier 1 BMPs, Tier 2 BMPs should be implemented.

- BMP 2 – Projects shall meet the current CalGreen Tier 2 standards, except all electric vehicle capable spaces shall instead be electric vehicle nearby.

#### **FINDINGS**

All additional significant environmental effects of the Project relating to Air Quality can be mitigated to a less-than-significant level.

**3. BIOLOGICAL RESOURCES**

| Issues:   | Effect will be studied in the EIR | Effect can be mitigated to less than significant | No additional significant environmental effect |
|---|-----------------------------------|--|--|
| <p><b><u>3. BIOLOGICAL RESOURCES</u></b><br/>                     Would the proposal:</p> <p>A) Create a potential health hazard, or use, production or disposal of materials that would pose a hazard to plant or animal populations in the area affected?</p> |                                   | X  |  |
| <p>B) Result in substantial degradation of the quality of the environment, reduction of the habitat, reduction of population below self-sustaining levels of threatened or endangered species of plant or animal species?</p>                                   |                                   |  | X  |
| <p>C) Affect other species of special concern to agencies or natural resource organizations (such as regulatory waters and wetlands)?</p>   |                                   |  | X  |

**ENVIRONMENTAL SETTING**

Prior to human development, the natural habitats within the region included perennial grasslands, riparian woodlands, oak woodlands, and a variety of wetlands including vernal pools, seasonal wetlands, freshwater marshes, ponds, streams, and rivers. Over the last 150 years, agriculture, irrigation, flood control, and urbanization have resulted in the loss or alteration of much of the natural habitat within the City limits. Non-native annual grasses have replaced the native perennial grasslands, many of the natural streams have been channelized, much of the riparian and oak woodlands have been cleared, and most of the marshes have been drained and converted to agricultural or urban uses.

Though the majority of the City is developed with residential, commercial, and other urban development, valuable plant and wildlife habitat still exists. These natural habitats are located primarily outside the city boundaries in the northern, southern and eastern portions of the City, but also occur along river and stream corridors and on a number of undeveloped parcels. Habitats that are present in the City include annual grasslands, riparian woodlands, oak woodlands, riverine, ponds, freshwater marshes, seasonal wetlands, and vernal pools. These habitats and their general locations are discussed briefly below.

Two structures exist on the proposed Project site; the retail building, and a sheltered gas pump area. The main building has been boarded up for two years, and the gas pumps remain on site. The proposed Project site is in an urban environment within the city limits of Sacramento, bounded by Rio Linda Boulevard to the west and Arcade Street to the south. The property is at approximately 35 feet elevation AMSL. Arcade Creek runs northeast to southwest approximately 120 feet north of the proposed Project site, which is otherwise surrounded by residential neighborhoods. The ground cover is mostly concrete with some ruderal weeds and grasses around the perimeter of the site.

The Arcade Creek watershed is a small, urbanized watershed bounded by a service road on both sides. It is a highly degraded stream ecosystem with severe water quality problems, is subject to moderate flood damage, and has significantly compromised habitat conditions. The urbanized nature of the landscape causes high loadings of toxicants, and the hot, dry summer climate creates high ambient temperatures in the creek and its tributaries. Related problems include high peak flows, excessive erosion, loss of riparian habitat, low dissolved oxygen levels, and low flows, resulting in negative impacts from invasive fish and plant species. These and other problems have virtually eliminated salmonids in the Arcade Creek watershed.

Based upon a review of the resources and databases described in the Biological Resources Assessment conducted for the proposed Project (Appendix B) it was determined that 27 special-status wildlife species, and 14 special-status plant species have been documented within 10 miles of the Project area. Of these 41 special-status species, 6 were determined to have reasonable potential for occurrence:

- 1) Burrowing owl (*Athene cunicularia*)
- 2) Purple martin (*Progne subis*)
- 3) Swainson's hawk (*Buteo swainsoni*)
- 4) Valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*)
- 5) Vernal pool fairy shrimp (*Branchinecta lynchi*)
- 6) Sanford's arrowhead (*Sagittaria sanfordii*)

The proposed Project site is in a highly disturbed urbanized area with little to no suitable habitat for any of the special status species identified in the BRA (Appendix B). Based on analysis of habitat conditions in the vicinity of the proposed Project site, all other special-status species identified in the data records search were found unlikely to occur in the proposed Project area. There was no apparent sign of occupancy of bat, bird, or small mammal species in the structures on site, and habitat conditions were not conducive for any of the identified special-status plant species.

#### **STANDARDS OF SIGNIFICANCE**

For purposes of this environmental document, an impact would be significant if any of the following conditions or potential thereof, would result with implementation of the proposed Project:

- Creation of a potential health hazard, or use, production or disposal of materials that would pose a hazard to plant or animal populations in the area affected;
- Substantial degradation of the quality of the environment, reduction of the habitat, reduction of population below self-sustaining levels of threatened or endangered species of plant or animal; or
- Affect other species of special concern to agencies or natural resource organizations (such as regulatory waters and wetlands).

For the purposes of this document, "special-status" has been defined to include those species, which are:

- Listed as endangered or threatened under the federal Endangered Species Act (or formally proposed for, or candidates for, listing);
- Listed as endangered or threatened under the California Endangered Species Act (or proposed for listing);
- Designated as endangered or rare, pursuant to California Fish and Game Code (Section 1901);
- Designated as fully protected, pursuant to California Fish and Game Code (Section 3511, 4700, or 5050);
- Designated as species of concern by U.S. Fish and Wildlife Service (USFWS), or as species of special concern to California Department of Fish and Game (CDFG);
- Plants or animals that meet the definition of rare or endangered under the California Environmental Quality Act (CEQA).

#### **SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES**

Chapter 4.3 of the Master EIR evaluated the effects of the 2035 General Plan on biological resources within the City. The Master EIR identified potential impacts in terms of degradation of the quality of the environment or reduction of habitat or population below self-sustaining levels of special-status birds, through the loss of both nesting and foraging habitat.

Policies in the 2035 General Plan were identified as mitigating the effects of development that could occur under the provisions of the 2035 General Plan. Policy ER 2.1.5 calls for the City to preserve the

ecological integrity of creek corridors and other riparian resources; Policy ER 2.1.10 requires the City to consider the potential impact on sensitive plants for each Project and to require pre-construction surveys when appropriate; and Policy ER 2.1.11 requires the City to coordinate its actions with those of the California Department Fish and Wildlife, U.S. Fish and Wildlife Service, and other agencies in the protection of resources.

The Master EIR discussed biological resources in Chapter 4.3. The Master EIR concluded that policies in the general plan, combined with compliance with the California Endangered Species Act, Natomas Basin HCP (when applicable) and CEQA would minimize the impacts on special-status species to a less-than-significant level (see Impact 4.3-1), and that the general plan policies, along with similar compliance with local, state and federal regulation would reduce impacts to a less-than-significant level for habitat for special-status invertebrates, birds, amphibians and reptiles, mammals and fish (Impacts 4.3-3-6).

Given the prevalence of rivers and streams in the incorporated area, impacts to riparian habitat is a common concern. Riparian habitats are known to exist throughout the City, especially along the Sacramento and American rivers and their tributaries. The Master EIR discussed impacts of development adjacent to riparian habitat that could disturb wildlife species that rely on these areas for shelter and food, and could also result in the degradation of these areas through the introduction of feral animals and contaminants that are typical of urban uses. The California Department of Fish and Wildlife (CDFW) regulates potential impacts on lakes, streams, and associated riparian (streamside or lakeside) vegetation through the issuance of Lake or Streambed Alteration Agreements (SAA) (per Fish and Game Code Section 1602), and provides guidance to the City as a resource agency. While there are no federal regulations that specifically mandate the protection of riparian vegetation, federal regulations set forth in Section 404 of the Clean Water Act address areas that potentially contain riparian-type vegetation, such as wetlands.

The general plan calls for the City to preserve the ecological integrity of creek corridors, canals and drainage ditches that support riparian resources (Policy ER 2.1.5) and wetlands (Policy ER 2.1.6) and requires habitat assessments and impact compensation for Projects (Policy ER 2.1.10). has adopted a standard that requires coordination with state and federal agencies if a Project has the potential to affect other species of special concern or habitats (including regulatory waters and wetlands) protected by agencies or natural resource organizations (Policy 2.1.11).

Implementation of 2035 General Plan Policy ER 2.1.5 would reduce the magnitude of potential impacts by requiring a 1:1 replacement of riparian habitat lost to development. While this would help mitigate impacts on riparian habitat, large open areas of riparian habitat used by wildlife could be lost and/or degraded directly and indirectly through development under the 2035 General Plan. Given the extent of urban development designated in the general plan, the preservation and/or restoration of riparian habitat would likely occur outside of the City limits. The Master EIR concluded that the permanent loss of riparian habitat would be a less-than-significant impact. (Impact 4.3-7)

#### **ANSWERS TO CHECKLIST QUESTIONS**

- A) Result a potential health hazard, or use, production or disposal of materials that would pose a hazard to plant or animal populations in the area affected?

**Effect can be mitigated to less than significant.** Development of the Project area would result in the rehabilitation of a former gas station and retail building that would not result in the use , production, or disposal of new hazardous materials on-site. Furthermore, the Project is not anticipated to result in a potential health hazard that would pose a hazard to local plant or animal populations. Standard BMPs BIO-1 through BIO-4 would be implemented to avoid potential impacts to plants and animals.

- B) Result in substantial degradation of the quality of the environment, reduction of the habitat, reduction of population below self-sustaining levels of threatened or endangered species of plant or animal species?

**No significant additional environmental effect.** A list of regional special status wildlife species with potential to occur within the Project vicinity was compiled from database searches of the USFWS IPaC, the

CNDDB, the CNPS Electronic Inventory of Rare and Endangered Plants, and the NMFS species database. The potential for each species to occur within the Project area was determined by analyzing the habitat requirements of each species and comparing the habitat requirements to available habitat within the Project area. After a comparison between habitat requirements and the habitat available within the Project area, no special status species were determined to have the potential to occur within the Project area. The Project area is a developed commercial lot with a paved parking lot, and an abandoned and secured retail store. The Project area does not have any natural habitat suitable for special-status species. As such, the Project is not anticipated to result in the substantial degradation of the quality of the environment, reduction of the habitat, or reduction of population below self-sustaining levels of threatened or endangered species. For more information, refer to Appendix B.

- C) Affect other species of special concern to agencies or natural resource organizations (such as regulatory waters and wetlands)?

**No significant additional environmental effect.** The Project site is a developed parcel that consists of paved concrete, barren land, and ruderal vegetation. In addition, the proposed Project is surrounded by existing development, paved areas, and other built landscapes. Arcade Creek, while being adjacent to the north of the site, is separated by a levee. No jurisdictional habitat occurs within the Project area; as such, the Project is not anticipated to affect regulatory waters or wetlands. Furthermore, no species of special concern are anticipated to occur within the proposed Project area.

#### **MITIGATION MEASURES**

**BIO-1:** Prior to arrival at the Project site and prior to leaving the Project site, construction equipment that may contain invasive plants and/or seeds will be cleaned to reduce the spreading of noxious weeds.

**BIO-2:** The contractor must dispose of all food-related trash in closed containers and must remove it from the Project Area each day during construction. Construction personnel must not feed or attract wildlife to the Project Area.

**BIO-3:** The contractor must not apply rodenticide or herbicide within the Project Area during construction.

**BIO-4:** If any wildlife is encountered during construction, said wildlife shall be allowed to leave the construction area unharmed.

#### **FINDINGS**

All additional significant environmental effects of the Project relating to Biological Resources can be mitigated to a less-than-significant level.

**4. CULTURAL RESOURCES**

| Issues:  | Effect will be studied in the EIR | Effect can be mitigated to less than significant | No additional significant environmental effect |
|--|-----------------------------------|--|--|
| <p><b>4. CULTURAL RESOURCES</b><br/>                     Would the Project:</p> <p>A) Cause a substantial adverse change in the significance of a historical or archaeological resource as defined in § 15064.5?</p> |                                   | X  |  |
| <p>B) Directly or indirectly destroy a unique paleontological resource?</p>  |                                   | X  |  |
| <p>C) Disturb any human remains?</p>   |                                   | X  |  |

**ENVIRONMENTAL SETTING**

The City of Sacramento and the surrounding area are known to have been occupied by Native American groups for thousands of years prior to settlement by non-Native peoples. Archaeological materials, including human burials, have been found throughout the city. Human burials outside of formal cemeteries often occur in prehistoric contexts. Areas of high sensitivity for archaeological resources, as identified in the 2035 General Plan Background Report, are located within close proximity to the Sacramento and American rivers and other watercourses.

The 2035 General Plan land use diagram designates a wide swath of land along the American River as Parks, which limits development and impacts on sensitive pre-contact and/or historic resources. High sensitivity areas may be found in other areas related to the ancient flows of the rivers, with differing meanders than found today. Recent discoveries during infill construction in downtown Sacramento have shown that the downtown area is highly sensitive for both historic- and prehistoric-period archaeological resources. Native American burials and artifacts were found in 2005 during construction of the New City Hall and historic period archaeological resources are abundant downtown due to the evolving development of the area and, in part, to the raising of the surface street level in the 1860s and 1870s, which created basements out of the first floors of many buildings.

**STANDARDS OF SIGNIFICANCE**

For purposes of this Initial Study, cultural resource impacts may be considered significant if construction and/or implementation of the proposed Project would result in one or more of the following:

1. Cause a substantial change in the significance of a historical or archaeological resource as defined in CEQA Guidelines Section 15064.5; or
2. Directly or indirectly destroy a unique paleontological resource; or
3. A substantial adverse change in the significance of such resources.

**SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES**

The Master EIR evaluated the potential effects of development under the 2035 General Plan on prehistoric and historic resources. See Chapter 4.4.

General plan policies identified as reducing such effects call for identification of resources on Project sites (Policy HCR 2.1.1), implementation of applicable laws and regulations (Policy HCR 2.1.2), early consultation with owners and land developers to minimize effects (Policy HCR 2.1.10) and encouragement of adaptive reuse of historic resources (Policy HCR 2.1.14). Demolition of historic resources is deemed a last resort. (Policy HCR 2.1.15)

The Master EIR concluded that implementation of the 2035 General Plan would have a significant and unavoidable effect on historic resources and archaeological resources. (Impacts 4.4-1, 2)

#### ANSWERS TO CHECKLIST QUESTIONS

- A) Cause a substantial adverse change in the significance of a historical or archaeological resource as defined in § 15064.5?

**Effects can be mitigated to less than significant.** To identify any known cultural resources, a records search of Project area was conducted via the North Central Information Center (NCIC) and the California Historical Records Information search (CHRIS). This report is included as Appendix D. Using this data, previously recorded sites and previous surveys within a 0.5-mile radius of the proposed Project area were reviewed.

The results of the records search indicate eight cultural resources recorded within 0.50-mile of the proposed Project area. The records searches indicate no recorded cultural resources within the proposed Project area. The proposed Project site is currently occupied by an inactive gas station, is partially undeveloped, and is surrounded by developed land within an urbanized area. The proposed Project site does not contain structures that could possibly yield important prehistoric or historic information. Given the heavily disturbed nature of the site, previously undiscovered cultural resources are not likely to occur onsite. Considering the geological history of the Project area and due to deep sedimentation during the Holocene in the region, however, unknown resources below the surface could be encountered during grading and excavation. Therefore, the proposed Project could result in additional significant environmental effects related to damaging or destroying prehistoric cultural resources beyond what was analyzed in the Master EIR. Implementation of Mitigation Measure CR-1 would mitigate the impact to a less-than significant level.

- B) Directly or indirectly destroy a unique paleontological resource?

**Effects can be mitigated to less than significant.** Paleontological resources are not known or suspected on-site due to the geological age of the proposed Project area soils, and unique geologic features are not known to exist on the Project site or in the immediate vicinity. Due to the disturbed nature of the proposed Project site, the potential for encountering paleontological resources is low, however, it remains possible that earth-disturbing activities could affect the integrity of a paleontological site. Implementation of Mitigation Measure CR-1 would mitigate the impact to a less-than significant level.

- C) Disturb any human remains?

**Effects can be mitigated to less than significant.** Given the disturbed nature of the proposed Project site, intact cultural resources are not likely to be found on-site during grading and construction activities. However, due to the continuous occupation of the region as a whole, which includes thousands of years of occupation by Native American groups prior to non-Native peoples settling in the region, the possibility exists that previously unknown resources could be encountered during ground-disturbing activities associated with development of the Project. If human remains are discovered during the construction of the Project, the implementation of measure CR-1 will ensure the appropriate procedures are followed to determine the nature of the remains.

**MITIGATION MEASURES**

**CR-1a:** In the Event that Cultural Resources Are Discovered During Construction, Implement Avoidance and Minimization Measures to Avoid Significant Impacts and Procedures to Evaluate Resources.

If cultural resources (such as structural features, unusual amounts of bone or shell, artifacts, or human remains) are encountered at the Project site during construction, work shall be suspended within 100 feet of the find (based on the apparent distribution of cultural materials), and the construction contractor shall immediately notify the Project's City representative. Avoidance and preservation in place is the preferred manner of mitigating impacts to cultural resources. This will be accomplished, if feasible, by several alternative means, including:

- Planning construction to avoid archaeological sites and/or other cultural resources; incorporating cultural resources within parks, green-space or other open space; covering archaeological resources; deeding a cultural resource to a permanent conservation easement; or other preservation and protection methods agreeable to consulting parties and regulatory authorities with jurisdiction over the activity.
- Recommendations for avoidance of cultural resources will be reviewed by the City representative and other appropriate agencies, in light of factors such as costs, logistics, feasibility, design, technology and social, cultural and environmental considerations, and the extent to which avoidance is consistent with Project objectives. Avoidance and design alternatives may include realignment within the Project site to avoid cultural resources, modification of the design to eliminate or reduce impacts to cultural resources or modification or realignment to avoid highly significant features within a cultural resource.
- If the discovered cultural resource can be avoided, the construction contractor(s), will install protective fencing outside the site boundary, including a 100-foot buffer area, before construction restarts. Use of temporary and permanent forms of protective fencing will be determined in consultation with Native American representatives from interested culturally affiliated Native American tribes.
- The construction contractor(s) will maintain the protective fencing throughout construction to avoid the site during all remaining phases of construction. The area will be demarcated as an "Environmentally Sensitive Area".

If a cultural resource cannot be avoided, the following performance standard shall be met prior to continuance of construction and associated activities that may result in damage to or destruction of cultural resources:

- Each resource will be evaluated for California Register of Historical Resources-(CRHR) eligibility through application of established eligibility criteria (California Code of Regulations 15064.636), in consultation with consulting Native American Tribes, as applicable.

If a cultural resource is determined to be eligible for listing in the CRHR, the City will avoid damaging effects to the resource in accordance with California PRC Section 21084.3, if feasible. The City shall coordinate the investigation of the find with a qualified archaeologist (meeting the Secretary of the Interior's Professional Qualifications Standards for Archeology) approved by the City. As part of the site investigation and

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resource assessment, the City and the archaeologist shall assess the significance of the find, make recommendations for further evaluation and treatment as necessary and provide proper management recommendations should potential impacts to the resources be determined by the City to be significant. A written report detailing the site assessment, coordination activities, and management recommendations shall be provided to the City representative by the qualified archaeologist. These recommendations will be documented in the Project record.

**CR-1b:** Implement Procedures in the Event of the Inadvertent Discovery of Human Remains.

If an inadvertent discovery of human remains is made at any time during Project-related construction activities or Project planning, the City the following performance standards shall be met prior to implementing or continuing actions such as construction, which may result in damage to or destruction of human remains. In accordance with the California Health and Safety Code (HSC), if human remains are encountered during ground-disturbing activities, the City shall immediately halt potentially damaging excavation in the area of the remains and notify the Sacramento County Coroner and a professional archaeologist to determine the nature of the remains. The Coroner is required to examine all discoveries of human remains within 48 hours of receiving notice of a discovery on private or State lands (HSC Section 7050.5[b]).

If the human remains are of historic age and are determined to be not of Native American origin, the City will follow the provisions of the HSC Section 7000 (et seq.) regarding the disinterment and removal of non-Native American human remains.

If the Coroner determines that the remains are those of a Native American, he or she must contact the Native American Heritage Commission (NAHC) by phone within 24 hours of making that determination (HSC Section 7050[c]). After the Coroner's findings have been made, the archaeologist and the NAHC-designated Most Likely Descendant (MLD), in consultation with the landowner, shall determine the ultimate treatment and disposition of the remains. The responsibilities of the City for acting upon notification of a discovery of Native American human remains are identified in California PRC Section 5097.9 et seq.

**FINDINGS**

All additional significant environmental effects of the Project relating to Cultural Resources can be mitigated to a less-than-significant level.

**5. ENERGY**

| Issues:  | Effect will be studied in the EIR | Effect can be mitigated to less than significant | No additional significant environmental effect |
|--|-----------------------------------|--|--|
| <p><b><u>5. ENERGY</u></b><br/>                     Would the Project:</p> <p>A) Result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy, or wasteful use of energy resources, during Project construction or operation?</p> |                                   |  | X  |
| <p>B) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?</p>   |                                   |  | X  |

**Energy**

Structures built would be subject to Titles 20 and 24 of the California Code of Regulations, which reduce demand for electrical energy by implementing energy-efficient standards for residential and non-residential buildings. The 2035 General Plan includes policies (see 2035 General Plan Energy Resources Goal U 6.1.1) and related policies to encourage energy-efficient technology by offering rebates and other incentives to commercial and residential developers, coordination with local utility providers and recruitment of businesses that research and promote energy conservation and efficiency.

The Master EIR discussed energy conservation and relevant general plan policies in section 6.3 (page 6-3). The discussion concluded that with implementation of the general plan policies and energy regulation (e.g., Title 24) development allowed in the general plan would not result in the inefficient, wasteful or unnecessary consumption of energy.

See also Section 12, below, discussing impacts related to energy. The Master EIR concluded that implementation of state regulation, coordination with energy providers and implementation of general plan policies would reduce the potential impacts from construction of new energy production or transmission facilities to a less-than-significant level.

**Environmental Setting**

Sacramento Municipal Utility District (SMUD) is a community-owned and not-for-profit utility that provides electric services to 900 square miles, including most of Sacramento County (SMUD 2020). Pacific Gas and Electric (PG&E) is an inventory-owned utility that provides electric and natural gas services to approximately 16 million people within a 70,000-square-mile service area in both northern and central California (PG&E 2020). SMUD is the primary electricity supplier, and PG&E is the primary natural gas supplier for the City of Sacramento and the Project area.

Energy demand related to the proposed Project would include energy directly consumed for space heating and cooling and proposed electric facilities and lighting. Indirect energy consumption would be associated with the generation of electricity at power plants. Transportation-related energy consumption includes the use of fuels and electricity to power cars, trucks, and public transportation. Energy would

also be consumed by equipment and vehicles used during Project construction and routine maintenance activities.

### ***Energy Policy and Conservation Act, and CAFE Standards***

The Energy Policy and Conservation Act of 1975 established nationwide fuel economy standards to conserve oil. Under this act, the National Highway Traffic and Safety Administration, is responsible for revising existing fuel economy standards and establishing new vehicle economy standards. The Corporate Average Fuel Economy program was established to determine vehicle manufacturer compliance with the government's fuel economy standards. Three Energy Policy Acts have been passed, in 1992, 2005, and 2007, to reduce dependence on foreign petroleum, provide tax incentives for alternative fuels, and support energy conservation.

### ***Energy Policy Act of 1992 and 2005***

The Energy Policy Act of 1992 (EPAAct) was passed to reduce the country's dependence on foreign petroleum and improve air quality. EPAAct includes several parts intended to build an inventory of alternative fuel vehicles (AFVs) in large, centrally fueled fleets in metropolitan areas. EPAAct requires certain federal, state, and local government and private fleets to purchase a percentage of light-duty AFVs capable of running on alternative fuels each year. In addition, financial incentives are also included in EPAAct. Federal tax deductions are allowed for businesses and individuals to cover the incremental cost of AFVs. States are also required by the act to consider a variety of incentive programs to help promote AFVs. The Energy Policy Act of 2005 provides renewed and expanded tax credits for electricity generated by qualified energy sources, such as landfill gas; provides bond financing, tax incentives, grants, and loan guarantees for clean renewable energy and rural community electrification; and establishes a federal purchase requirement for renewable energy.

### ***State of California Energy Efficiency Action Plan***

The 2019 California Energy Efficiency Action Plan has three primary goals for the state: double energy efficiency savings by 2030 relative to a 2015 base year (per SB 350), expand energy efficiency in low-income and disadvantaged communities, and reduce greenhouse gas emissions from buildings. This plan provides guiding principles and recommendations on how the state would achieve those goals. These recommendations include:

- identifying funding sources that support energy efficiency programs,
- identifying opportunities to improve energy efficiency through data analysis,
- using program designs as a way to encourage increased energy efficiency on the consumer end,
- improving energy efficiency through workforce education and training, and
- supporting rulemaking and programs that incorporate energy demand flexibility and building decarbonization. (CEC 2019)

### ***California Green Building Standards***

The energy consumption of new residential and nonresidential buildings in California is regulated by the state's Title 24, Part 6, Building Energy Efficiency Standards (California Energy Code). The California

Energy Code was established by CEC in 1978 in response to a legislative mandate to create uniform building codes to reduce California's energy consumption and provide energy efficiency standards for residential and non-residential buildings. CEC updates the California Energy Code every 3 years with more stringent design requirements for reduced energy consumption, which results in the generation of fewer GHG emissions.

The 2019 California Energy Code was adopted by CEC on May 9, 2018 and applies to Projects constructed after January 1, 2020. The 2019 California Energy Code is designed to move the State closer to its zero-net energy goals for new residential development. It does so by requiring all new residences to install enough renewable energy to offset all the electricity needs of each residential unit (California Code of Regulations (CCR), Title 24, Part 6, Section 150.1(c)4). CEC estimates that the combination of mandatory on-site renewable energy and prescriptively required energy efficiency standards will result in a 53 percent reduction in new residential construction as compared to the 2016 California Energy Code. Non-residential buildings are anticipated to reduce energy consumption by 30 percent as compared to the 2016 California Energy Code primarily through prescriptive requirements for high-efficiency lighting (CEC 2018). The Energy Code is enforced through the local plan check and building permit process. Local government agencies may adopt and enforce additional energy standards for new buildings as reasonably necessary due to local climatologic, geologic, or topographic conditions, provided that these standards exceed those provided in the California Energy Code.

### ***Transportation-Related Regulations***

Various regulatory and planning efforts are aimed at reducing dependency on fossil fuels, increasing the use of alternative fuels, and improving California's vehicle fleet. Senate Bill (SB) 375 aligns regional transportation planning efforts, regional GHG emission reduction targets, and land use and housing allocation. CARB, in consultation with the metropolitan planning organizations, provides each affected region with reduction targets for GHGs emitted by passenger cars and light trucks in their respective regions for 2020 and 2035.

Pursuant to Assembly Bill (AB) 2076 (Chapter 936, Statutes of 2000), CEC and the CARB prepared and adopted a joint agency report in 2003, Reducing California's Petroleum Dependence. Included in this report are recommendations to increase the use of alternative fuels to 20 percent of on-road transportation fuel use by 2020 and 30 percent by 2030, significantly increase the efficiency of motor vehicles, and reduce per capita VMT (CEC and CARB 2003).

AB 1007 (Chapter 371, Statutes of 2005) required CEC to prepare the State Alternative Fuels Plan to increase the use of alternative fuels in California.

In January 2012, CARB approved the Advanced Clean Cars program which combines the control of GHG emissions and criteria air pollutants, as well as requirements for greater numbers of zero-emission vehicles, into a single package of standards for vehicle model years 2017 through 2025. The program's zero-emission vehicle regulation requires battery, fuel cell, and/or plug-in hybrid electric vehicles to account for up to 15 percent of California's new vehicle sales by 2025.

On August 2, 2018, the National Highway Traffic Safety Administration (NHTSA and EPA proposed the Safer Affordable Fuel-Efficient Vehicles Rule (SAFE Rule). Part One of the SAFE Rule revokes a waiver granted by EPA to the State of California under Section 209 of the CAA to enforce more stringent

emission standards for motor vehicles than those required by EPA for the explicit purpose of GHG emission reduction, and indirectly, criteria air pollutant and ozone precursor emission reduction. On March 31, 2020, Part Two of the SAFE Rule was published and would amend existing CAFE and tailpipe CO<sub>2</sub> emissions standards for passenger cars and light trucks and establish new standards covering model years 2021 through 2026.

### ***GHG Reduction Regulations***

Several regulatory measures such as AB 32 and the Climate Change Scoping Plan, EO B-30-15, SB 32, and AB 197 were enacted to reduce GHGs and have the co-benefit of reducing California's dependency on fossil fuels and making land use development and transportation systems more energy efficient.

### ***Renewable Energy Regulations***

SB X1-2 of 2011 requires all California utilities to generate 33 percent of their electricity from renewables by 2020. SB X1-2 also requires the renewable electricity standard to be met increasingly with renewable energy that is supplied to the California grid from sources within, or directly proximate to, California. SB X1-2 mandates that renewables from these sources make up at least 50 percent of the total renewable energy for the 2011-2013 compliance period, at least 65 percent for the 2014-2016 compliance period, and at least 75 percent for 2016 and beyond.

SB 100, signed in September 2018, requires that all California utilities, including independently-owned utilities, energy service providers, and community choice aggregators, supply 44 percent of retail sales from renewable resources by December 31, 2024, 50 percent of all electricity sold by December 31, 2026, 52 percent by December 31, 2027, and 60 percent by December 31, 2030. The law also requires that eligible renewable energy resources and zero-carbon resources supply 100 percent of retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all State agencies by December 31, 2045.

### ***Energy Independence and Security Act of 2007***

The Energy Independence and Security Act of 2007 is designed to improve vehicle fuel economy and help reduce U.S. dependence on oil. It represents a major step forward in expanding the production of renewable fuels, reducing dependence on oil, and confronting global climate change. The Energy Independence and Security Act of 2007 increases the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel in 2022, which represents a nearly five-fold increase over current levels; and reduces U.S. demand for oil by setting a national fuel economy standard of 35 miles per gallon by 2020—an increase in fuel economy standards of 40 percent.

By addressing renewable fuels and the CAFE standards, the Energy Independence and Security Act of 2007 builds upon progress made by the Energy Policy Act of 2005 in setting out a comprehensive national energy strategy for the 21st century.

### **Summary of Analysis under the 2035 General Plan Master EIR and Applicable General Plan Policies**

Structures built would be subject to Titles 20 and 24 of the California Code of Regulations, which reduce demand for electrical energy by implementing energy-efficient standards for residential and non-residential buildings. The 2035 General Plan includes policies (see 2035 General Plan Energy Resources Goal U 6.1.1) and related policies to encourage energy-efficient technology by offering rebates and other incentives to commercial and residential developers, coordination with local utility providers and recruitment of businesses that research and promote energy conservation and efficiency.

The Master EIR discussed energy conservation and relevant General Plan policies in section 6.3 (page 6-3). The discussion concluded that with implementation of the General Plan policies and energy regulation (e.g., Title 24) development allowed in the General Plan would not result in the inefficient, wasteful or unnecessary consumption of energy.

See also Section 12, below, discussing impacts related to energy. The Master EIR concluded that implementation of state regulation, coordination with energy providers and implementation of General Plan policies would reduce the potential impacts from construction of new energy production or transmission facilities to a less-than-significant level.

### ***Sacramento Climate Action Plan***

The Sacramento CAP was adopted on February 14, 2012 by the Sacramento City Council and was incorporated into the 2035 General Plan. The Sacramento CAP includes GHG emission reduction targets, strategies, and implementation measures developed to help the City reach these targets. Reduction strategies address GHG emissions associated with transportation and land use, energy, water, waste management and recycling, agriculture, and open space.

### **Standards of Significance**

For the purposes of this Initial Study, an impact is considered significant if the proposed Project would:

- result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy, or wasteful use of energy resources, during Project construction or operation; and/or
- conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

### **Answers to Checklist Questions**

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

**No additional significant environmental effect.** Neither federal or State law nor the State CEQA Guidelines establish thresholds that define when energy consumption is considered wasteful, inefficient and unnecessary. Compliance with CCR Title 24 Energy Efficiency Standards would result in energy-efficient buildings. However, compliance with building codes does not adequately address all potential energy impacts during construction and operation. For example, energy would be required to transport people and goods to and from the Project site. Energy use is discussed by anticipated use type below.

CONSTRUCTION

Construction of the proposed Project would involve the consumption of energy in the form of gasoline and diesel fuel in order to power construction worker vehicle trips, hauling and materials delivery truck trips, and operation of construction equipment. In addition, portable generators may be used on-site in order to produce additional electricity for temporary on-site lighting, welding, and the supply of energy where hookups to the existing electricity grid are not readily available.

Due to the necessity for different stages of construction (e.g. site preparation, grading, and building construction), the operation of construction equipment would occur at different locations and at different times within the Project site. Additionally, the use of construction equipment is regulated under the CARB In-Use Off-Road Diesel Vehicle Regulation. The In-Use Off-Road Diesel Vehicle Regulation aims to reduce emissions from in-use off-road, heavy duty vehicles in California by imposing limits on idling, requiring all vehicles to be reported to CARB, restricting the addition of older vehicles to existing fleets, and requiring fleets to reduce emissions by replacing, retrofitting, or retiring older engines. The use of In-Use Off-Road Diesel Vehicle Regulation would therefore assist in improving vehicle fuel efficiency and reducing GHG emissions.

The 2017 Climate Change Scoping Plan Update, prepared by CARB, outlines examples of local actions that would support the State's climate goals, including municipal code changes, zoning changes, policy directions, and mitigation measures. The CARB Diesel Vehicle Regulation described above, with which the Project must comply, would maintain the Project's consistency with the intention and recommendations of the 2017 Scoping Plan.

Despite the temporary increase in energy use occurring during construction of the proposed Project, the Project would not result in a significant increase in peak or base demands or require additional capacity from local or regional energy facilities. In addition, construction would be subject to all applicable regulations related to energy conservation and fuel efficiency, which would serve to reduce the temporary increase in energy demand.

#### OPERATIONAL

The proposed Project would be required to comply with all the relevant provisions outlined in the most recent update of the California Building Standards Commission (CBSC), including the Building Energy Efficiency Standards. Adherence to all applicable regulations included in the City's Climate Action Plan (CAP) would ensure that the buildings resulting from this Project would consume energy efficiently through the incorporation of features such as insulated walls and high efficacy lighting. Mandatory compliance with the CBSC ensures that building energy use resulting from the completion of this Project would not be wasteful, inefficient, or unnecessary. Additionally, SMUD is required to comply with the State's Renewables Portfolio Standard, mandating that investor-owned utilities, electric service providers, and community choice aggregators must meet a 33 percent total procurement of eligible renewable energy resources by 2020 and 60 percent total procurement by 2030. This ensures that a portion of the electricity consumed during Project operations would be generated from renewable resources.

See Section 13, Transportation, for discussion surrounding transportation energy use and the VMT associated with the development of the proposed Project. Based on the above, construction and operation of the proposed Project would not result in wasteful, inefficient, or unnecessary consumption of energy resources or conflict with or obstruct a State or local plan for renewable energy or energy efficiency. Thus, implementation of the proposed Project would have no additional significant environmental effect related to energy beyond what was previously evaluated in the Master EIR.

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

**No additional significant environmental effect.** Structures built as part of the Project would be subject to Titles 20 and 24 of the California Code of Regulations, which serve to reduce demand for electrical energy by implementing energy-efficient standards for residential and non-residential buildings. The 2030 General Plan includes policies (see Policies 6.1.10 through 6.1.13) to encourage the spread of energy-efficient technology by offering rebates and other incentives to commercial and residential developers, and recruiting businesses that research and promote energy conservation and efficiency. Policies 6.1.6

through 6.1.8 focus on promoting the use of renewable resources, which would reduce the cumulative impacts associated with use of non-renewable energy sources. In addition, Policies 6.1.5 and 6.1.12 call for the City to work with utility providers and industries to promote new conservation technologies.

The Master EIR evaluated the potential impacts on energy and concluded that the effects would be less than significant (See Impacts 6.11-9 and 6.11-10). The proposed Project would not result in any impacts not identified and evaluated in the Master EIR.

**Mitigation Measures**

None.

**Findings**

The Project would have no additional Project-specific environmental effects relating to Energy.

**6. GEOLOGY AND SOILS**

| Issues:  | Effect will be studied in the EIR | Effect can be mitigated to less than significant | No additional significant environmental effect |
|--|-----------------------------------|--|--|
| <p><b>5. <u>GEOLOGY AND SOILS</u></b></p> <p>Would the Project allow a Project to be built that will either introduce geologic or seismic hazards by allowing the construction of the Project on such a site without protection against those hazards?</p> |                                   |  | X  |

**ENVIRONMENTAL SETTING**

Geological formations of the Project vicinity include marine and nonmarine (continental) sedimentary rocks (Pleistocene-Holocene) - Alluvium, lake, playa, and terrace deposits; unconsolidated and semi consolidated (Q) (Geologic Map of California, 2022).

Surface faulting or ground rupture tends to occur along lines of previous faulting. The nearest fault is the Foothill Fault System, located approximately 30 miles north east of the Project area. Since previously identified fault lines are not within or near the Project area, the possibility of fault rupture is negligible within the site, but in the event of an earthquake on a nearby fault, the Project site could experience ground shaking. The California Geological Survey (CGS) probabilistic seismic hazards maps shows that the seismic ground-shaking hazard for the city is relatively low, and is among the lowest in the State.

**STANDARDS OF SIGNIFICANCE**

For the purposes of this Initial Study, an impact is considered significant if it allows a Project to be built that will either introduce geologic or seismic hazards by allowing the construction of the Project on such a site without protection against those hazards.

**SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES**

Chapter 4.5 of the Master EIR evaluated the potential effects related to seismic hazards, underlying soil characteristics, slope stability, erosion, existing mineral resources and paleontological resources in the City. Implementation of identified policies in the 2035 General Plan reduced all effects to a less-than-significant level. Policy EC 1.1.1 requires regular review of the City’s seismic and geologic safety standards, and Policy EC 1.1.2 requires geotechnical investigations for Project sites to identify and respond to geologic hazards, when present.

**ANSWERS TO CHECKLIST QUESTIONS**

- A) Would the Project allow a Project to be built that will either introduce geologic or seismic hazards by allowing the construction of the Project on such a site without protection against those hazards?

**No additional significant environmental effect.** The proposed Project area is located approximately 30 miles northeast of the nearest active fault and is not within an Alquist-Priolo Earthquake Fault Zone. Therefore, the chance of fault rupture within the Project area is very low. Since previously identified fault lines are not within or near the Project site, the possibility of fault rupture is negligible within the Project

site, but in the event of an earthquake on a nearby fault, the Project site could experience ground shaking.

General Plan Goal EC 1.1 and Policies 1.1.1 to 1.1.3 would ensure that lives and property within the Project area protected from seismic hazards. These policies include regular review and enforcement of seismic and geologic safety standards, and geotechnical investigations to determine potential for hazards such as ground rupture, ground shaking, and liquefaction due to seismic events, as well as expansive soils and subsidence problems on sites where these hazards may be present. This impact is within the scope of the General Plan and was analyzed in the Master EIR. The Project site is relatively level, so there would be no impacts related to the possibility of landslides.

**MITIGATION MEASURES**

None.

**FINDINGS**

The Project would have no additional Project-specific environmental effects relating to Geology and Soils.

**7. GREENHOUSE GAS EMISSIONS**

| Issues:   | Effect will be studied in the EIR | Effect can be mitigated to less than significant | No additional significant environmental effect |
|---|-----------------------------------|--|--|
| <p><b><u>6. GREENHOUSE GAS EMISSIONS</u></b><br/>                     Would the Project:</p> <p>A) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?</p> |                                   | X  |  |
| <p>B) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?</p>   |                                   | X  |  |

**Environmental Setting**

The City of Sacramento is located within the Sacramento Valley Air Basin (SVAB), which is a valley bounded by the North Coast Mountain Ranges to the west and the Northern Sierra Nevada Mountains to the east. The terrain in the valley is flat and approximately 25 feet above sea level.

Hot, dry summers and mild, rainy winters characterize the Mediterranean climate of the Sacramento Valley. Throughout the year, daily temperatures may range by 20 degrees Fahrenheit with summer highs often exceeding 100 degrees and winter lows occasionally below freezing. Average annual rainfall is about 20 inches and snowfall is very rare. Summertime temperatures are normally moderated by the presence of the “Delta breeze” that arrives through the Carquinez Strait in the evening hours.

The mountains surrounding the SVAB create a barrier to airflow, which can trap air pollutants in the valley. The highest frequency of air stagnation occurs in the autumn and early winter when large high-pressure cells lie over the valley. The lack of surface wind during these periods and the reduced vertical flow caused by less surface heating reduces the influx of outside air and allows air pollutants to become concentrated in a stable volume of air. The surface concentrations of pollutants are highest when these conditions are combined with temperature inversions that trap cooler air and pollutants near the ground.

The warmer months in the SVAB (May through October) are characterized by stagnant morning air or light winds, and the Delta breeze that arrives in the evening out of the southwest. Usually, the evening breeze transports a portion of airborne pollutants to the north and out of the Sacramento Valley. During about half of the day from July to September, however, a phenomenon called the “Schultz Eddy” prevents this from occurring. Instead of allowing the prevailing wind patterns to move north carrying the pollutants out of the valley, the Schultz Eddy causes the wind pattern to circle back south. This phenomenon exacerbates the pollution levels in the area and increases the likelihood of violating Federal or State standards. The Schultz Eddy normally dissipates around noon when the Delta breeze begins.

**Greenhouse Gases**

Certain gases in the earth’s atmosphere, classified as greenhouse gases (GHGs), play a critical role in determining the earth’s surface temperature. GHGs are responsible for “trapping” solar radiation in the earth’s atmosphere, a phenomenon known as the greenhouse effect. Prominent GHGs contributing to the greenhouse effect are carbon dioxide (CO<sub>2</sub>), methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. Human-caused emissions of these GHGs in excess of natural ambient concentrations are believed responsible for intensifying the greenhouse effect and leading to a

trend of unnatural warming of the earth's climate, known as global climate change or global warming. Emissions of GHGs contributing to global climate change are attributable, in large part, to human activities associated with on-road and off-road transportation, industrial/manufacturing, electricity generation by utilities and consumption by end users, residential and commercial on-site fuel usage, and agriculture and forestry. Emissions of CO<sub>2</sub> are, largely, byproducts of fossil fuel combustion.

The quantity of GHGs in the atmosphere responsible for climate change is not precisely known, but it is enormous. No single Project alone would measurably contribute to an incremental change in the global average temperature or to global or local climates or microclimates. From the standpoint of CEQA, GHG impacts relative to global climate change are inherently cumulative.

Several regulations currently exist related to GHG emissions, predominantly Assembly Bill (AB) 32, Executive Order S-3-05, and Senate Bill (SB) 32. AB 32 requires that Statewide GHG emissions be reduced to 1990 levels by 2020. Executive Order S-3-05 established the GHG emission reduction target for the State to reduce to the 2000 level by 2010, the 1990 level by 2020 (AB 32), 40 percent below the 1990 level by 2030, and to 80 percent below the 1990 level by 2050 (SB 32).

To meet the statewide GHG emission targets, the City adopted the City of Sacramento Climate Action Plan (CAP) on February 14, 2012 to comply with AB 32. The CAP identified how the City and the broader community could reduce Sacramento's GHG emissions and included reduction targets, strategies, and specific actions. In 2015, the City of Sacramento adopted the 2035 General Plan Update. The update incorporated measures and actions from the CAP into Appendix B, General Plan CAP Policies and Programs, which includes citywide policies and programs that are supportive of reducing GHG emissions

#### **STANDARDS OF SIGNIFICANCE**

- A Project is considered to have a significant effect relating to greenhouse gas emissions if it fails to satisfy the requirements of the City's Climate Action Plan.
- 

#### **SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES**

The Master EIR found that greenhouse gas emissions that would be generated by development consistent with the 2035 General Plan would contribute to climate change on a cumulative basis. Policies of the General Plan identified in the Master EIR that would reduce construction related GHG emissions include: ER 6.1.2, ER 6.1.11 requiring coordination with SMAQMD to ensure feasible mitigation measures are incorporated to reduce GHG emissions, and ER 6.1.15. The 2035 General Plan incorporates the GHG reduction strategy of the 2012 Climate Action Plan (CAP), which demonstrates compliance mechanism for achieving the City's adopted GHG reduction target of 15 percent below 2005 emissions by 2020. Policy ER 6.1.8 commits the City to assess and monitor performance of GHG emission reduction efforts beyond 2020, and progress toward meeting long-term GHG emission reduction goals, ER 6.1.9 also commits the City to evaluate the feasibility and effectiveness of new GHG emissions reduction measures in view of the City's longer-term GHG emission reductions goal. The discussion of greenhouse gas emissions and climate change in the 2035 General Plan Master EIR are incorporated by reference in this Initial Study. (CEQA Guidelines Section 15150)

The Master EIR identified numerous policies included in the 2035 General Plan that addressed greenhouse gas emissions and climate change. See Draft Master EIR, Chapter 4.14, and pages 4.14-1 et seq. The Master EIR is available for review online at

<http://www.cityofsacramento.org/Community-Development/Planning/Environmental/Impact-Reports>

#### **ANSWERS TO CHECKLIST QUESTIONS**

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

**Effect can be mitigated to less than significant.** Construction emissions for the proposed Project were estimated using CalEEMod version 2020.4. The modelling assumptions, inputs, and output file can be found in Appendix A. The results of the modelling show that construction of the proposed Project would result in 58.86 metric tons of CO<sub>2</sub>e annually (322.5 pounds per day on average). This is below the SMAQMD GHG construction phase threshold for land development Projects (1,100 metric tons/year), which is used to attain improved air quality and reduce GHG's in the 2035 General Plan.

Per the SMAQMD thresholds, operational emissions for land development Projects need to demonstrate consistency with the City's CAP by implementing BMP's. Further discussion on the Project's consistency with the City's CAP is discussed below, however, the Project will implement measure AQ-2 to demonstrate compliance.

The proposed Project would not generate GHG emissions that may have a significant impact on the environment since construction emissions are below the SMAQMD GHG thresholds and operational emissions are consistent with the City's CAP- with implementation of measure AQ-2. The proposed Project would not result in any impacts not identified and evaluated in the Master EIR.

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

**Effect can be mitigated to less than significant.** To comply with AB 32 and meet the statewide GHG emission targets, the City adopted the City of Sacramento CAP on February 14, 2012. The CAP identified how the City and the broader community could reduce Sacramento's GHG emissions and included reduction targets, strategies, and specific actions. In 2015, the City adopted the 2035 General Plan Update. The update incorporated measures and actions from the CAP into Appendix B, General Plan CAP Policies and Programs, which includes citywide policies and programs that are supportive of reducing GHG emissions. Upon adoption of the 2035 General Plan, the 2012 CAP was rescinded, and the 2035 General Plan became the City's CAP. In updating the 2035 General Plan the City has met the State standards as a qualified plan for the reduction of greenhouse gas emissions under Section 15183.5 of the State CEQA Guidelines. It should be noted that the City is currently undertaking an update to the City's General Plan, 2040 General Plan Update, as well as a standalone CAAP.

The Preliminary Draft CAAP, which was released for a 30-day early review on July 1, 2022, is a critical component of the larger Sacramento 2040 effort that involves a comprehensive update of the General Plan, the complete CAAP, and a Master EIR. The Preliminary Draft CAAP sets new and ambitious targets for the City and identifies key decarbonization strategies and implementable actions that form the foundation of Sacramento's goal for achieving carbon neutrality by 2045. By implementing measure AQ-2, per the SMAQMD thresholds of significance table, the Project is consistent with the Preliminary Draft CAAP. Additionally, the Project is within the Florin Road Corridor area and would support existing retail and employment opportunities in this area, this is consistent with measure E-5 which is used as a measure to reduce GHG in the Preliminary Draft CAAP (City of Sacramento, 2022).

With adherence to standard BMPs required with SMAQMD, as described in measures AQ-1 and AQ2, the proposed Project would not conflict with existing CAP policies and programs that intend to reduce emissions of GHGs.

## **MITIGATION MEASURES**

See Section 2 – Air Quality for air quality specific measures.

**FINDINGS**

The Project would have no additional Project-specific environmental effects relating to Greenhouse Gas Emissions.

**8. HAZARDS**

| Issues:   | Effect will be studied in the EIR | Effect can be mitigated to less than significant | No additional significant environmental effect |
|---|-----------------------------------|--|--|
| <p>8. HAZARDS<br/>Would the Project:</p> <p>A) Expose people (e.g., residents, pedestrians, construction workers) to existing contaminated soil during construction activities?</p> |                                   | X  |  |
| <p>B) Expose people (e.g., residents, pedestrians, construction workers) to asbestos-containing materials or other hazardous materials?</p>   |                                   |  | X  |
| <p>C) Expose people (e.g., residents, pedestrians, construction workers) to existing contaminated groundwater during dewatering activities?</p>                                     |                                   |  | X  |

**ENVIRONMENTAL AND REGULATORY SETTING**

Federal regulations and regulations adopted by the Sacramento Metropolitan Air Quality Management District (SMAQMD) apply to the identification and treatment of hazardous materials during demolition and construction activities. Failure to comply with these regulations respecting asbestos may result in a Notice of Violation being issued by the AQMD and civil penalties under state and/or federal law, in addition to possible action by U.S. EPA under federal law.

Federal law covers a number of different activities involving asbestos, including demolition and renovation of structures (40 CFR § 61.145).

**SMAQMD RULE 902 AND COMMERCIAL STRUCTURES**

The work practices and administrative requirements of Rule 902 apply to all commercial renovations and demolitions where the amount of Regulated Asbestos-Containing Material (RACM) is greater than:

- 260 lineal feet of RACM on pipes, or
- 160 square feet of RACM on other facility components, or
- 35 cubic feet of RACM that could not be measured otherwise.

The administrative requirements of Rule 902 apply to any demolition of commercial structures, regardless of the amount of RACM. To determine the amount of RACM in a structure, Rule 902 requires that a survey be conducted prior to demolition or renovation unless:

- the structure is otherwise exempt from the rule, or
- any material that has a propensity to contain asbestos (so-called "suspect material") is treated as if it is RACM.

Surveys must be done by a licensed asbestos consultant and require laboratory analysis. Asbestos consultants are listed in the phone book under "Asbestos Consultants." Large industrial facilities may use non-licensed employees if those employees are trained by the U.S. EPA. Questions regarding the use of non-licensed employees should be directed to the AQMD.

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**STANDARDS OF SIGNIFICANCE**

For the purposes of this Initial Study, an impact is considered significant if the proposed Project would:

- expose people (e.g., residents, pedestrians, construction workers) to existing contaminated soil during construction activities;
- expose people (e.g., residents, pedestrians, construction workers) to asbestos-containing materials or other hazardous materials; or
- expose people (e.g., residents, pedestrians, construction workers) to existing contaminated groundwater during dewatering activities.

**SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES**

The Master EIR evaluated effects of development on hazardous materials, emergency response and aircraft crash hazards. See Chapter 4.6. Implementation of the General Plan may result in the exposure of people to hazards and hazardous materials during construction activities, and exposure of people to hazards and hazardous materials during the life of the general plan. Impacts identified related to construction activities and operations were found to be less than significant. Policies included in the 2035 general Plan, including PHS 3.1.1 (investigation of sites for contamination) and PHS 3.1.2 (preparation of hazardous materials actions plans when appropriate) were effective in reducing the identified impacts.

**ANSWERS TO CHECKLIST QUESTIONS**

- A) Expose people (e.g., residents, pedestrians, construction workers) to existing contaminated soil during construction activities?

**Effect can be mitigated to less than significant.** The former gas station at the proposed Project site was the site of a Leaking Underground Storage Tank (LUST) Cleanup. Previous station upgrades resulted in investigations conducted during 1999 which concluded that Petroleum Hydrocarbons were present. Remedial activities were performed and it was determined that the site was no longer contaminated. The case was closed as of March 2019. More information on this can be found in the Phase 1 Environmental Site Assessment performed for the proposed Project (Appendix E).

However unlikely, unknown hazardous waste/material could be encountered during Project construction. Therefore, the proposed Project could result in additional significant environmental effects related to hazardous waste/materials beyond what was analyzed in the Master EIR. With the incorporation of HAZ-1 there would be a less-than-significant impact to people in regard to exposure of existing contaminated soil and lead during construction activities.

- B) Expose people (e.g., residents, pedestrians, construction workers) to asbestos-containing materials or other hazardous materials?

**No additional significant environmental effect.** In February of 2020, the proposed Project site was surveyed for the presence of any asbestos or lead containing materials. Samples were analyzed using Polarized Light Microscopy (asbestos) and X-ray fluorescence (lead). Results from the analysis were negative for both contaminants. For more information, these reports can be found in Appendix A.

- C) Expose people (e.g., residents, pedestrians, construction workers) to existing contaminated groundwater during dewatering activities?

**No additional significant environmental effect.** The proposed Project would not be expected to require any on-site dewatering activities. Construction activities would be limited to the proposed Project site. Groundwater would not be anticipated to be encountered during rehabilitation of the site, as the site is already graded. Thus, the proposed Project would have a less than significant impact related to the

potential to expose construction workers and pedestrians to contaminated groundwater and implementation of the proposed Project would result in no additional significant environmental effects beyond what has been previously analyzed in the Master EIR.

#### **MITIGATION MEASURES**

##### **HAZ-1: Unanticipated Discovery of Hazardous Waste and Contamination**

- After unknown and potentially hazardous wastes and contamination, including underground tanks, are discovered, cease construction work in that area.
- Secure the area with barriers or fences and evacuate the vicinity.
- Prohibit construction personnel from any exploratory or investigative work that would result in further personal exposure.
- For any necessary exploratory, investigative, or cleanup work, use specialized consultants or safety workers who are fully trained, licensed, and qualified for hazardous waste work in accordance with state and federal regulations.
- No one enter the designated exclusion zones until a qualified professional has determined no exposure danger exists.

#### **FINDINGS**

All additional significant environmental effects of the Project relating to Hazards can be mitigated to a less-than-significant level.

**9. HYDROLOGY AND WATER QUALITY**

| Issues:  | Effect will be studied in the EIR | Effect can be mitigated to less than significant | No additional significant environmental effect |
|--|-----------------------------------|--|--|
| <p><b>8. <u>HYDROLOGY AND WATER QUALITY</u></b><br/>                     Would the Project:</p> <p>A) Substantially degrade water quality and violate any water quality objectives set by the State Water Resources Control Board, due to increases in sediments and other contaminants generated by construction and/or development of the Project?</p> |                                   | X  |  |
| <p>B) Substantially increase the exposure of people and/or property to the risk of injury and damage in the event of a 100-year flood?</p>   |                                   |  | X  |

**ENVIRONMENTAL SETTING**

The Project area is within the Valley-American hydrologic unit and the Lower Sacramento River Watershed. Creeks, streams, or rivers are not present on the Project site.

The Sacramento River and its tributary channels beneficial uses are municipal and domestic supply, agriculture, industry, recreation, freshwater habitats (migration and spawning of fish), and wildlife habitat according to the Basin Plan for the Sacramento River and San Joaquin River Basins (California Regional Water Quality Control Board, 1998).

The proposed Project is not located within one of California’s four sole source aquifers. The Project is located in Sacramento County which does not have a sole source aquifer.

**STANDARDS OF SIGNIFICANCE**

For purposes of this Initial Study, impacts to hydrology and water quality may be considered significant if construction and/or implementation of the Proposed Project would result in the following impacts that remain significant after implementation of General Plan policies or mitigation from the General Plan MEIR:

- substantially degrade water quality and violate any water quality objectives set by the State Water Resources Control Board, due to increases in sediments and other contaminants generated by construction and/or development of the Specific Plan or
- substantially increase the exposure of people and/or property to the risk of injury and damage in the event of a 100-year flood.

**SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES**

Chapter 4.7 of the Master EIR evaluates the potential effects of the 2035 General Plan as they relate to surface water, groundwater, flooding, stormwater and water quality. Potential effects include water quality degradation due to construction activities (Impacts 4.7-1, 4.7-2), and exposure of people to flood risks (Impacts 4.7-3). Policies included in the 2035 General Plan, including a directive for regional cooperation (Policies ER 1.1.2, EC 2.1.1), comprehensive flood management (Policy EC 2.1.23), and construction of adequate drainage facilities with new development (Policy ER 1.1.1 to ER 1.1.10) were identified that the Master EIR concluded would reduce all impacts to a less-than-significant level.

**ANSWERS TO CHECKLIST QUESTIONS**

- A) Substantially degrade water quality and violate any water quality objectives set by the State Water Resources Control Board, due to increases in sediments and other contaminants generated by construction and/or development of the Project?

**Effect can be mitigated to less than significant.** There is potential for the proposed Project to result in degradation of water quality during both the construction and operational phases. Polluted runoff from the Project site during construction and operation could include sediment from soil disturbances, oil and grease from construction equipment and vehicles, and pesticides and fertilizers from landscaped areas. This degradation could result in violation of water quality standards.

The City's Stormwater Quality Improvement Plan (SQIP) contains guidance for construction on small building sites (sites under 1 acre) to comply with the City's MS4 permit requirements. The following recommended BMPs will be implemented during construction: evaluate the site and protect natural features, schedule work to minimize problems, install perimeter controls, install stabilized construction access, protect storm drain inlets, use other pollution control practices as needed, maintain BMPs, and perform final steps (stabilize the site and remove all temporary construction BMPs). Conformance with City regulations and permit requirements along with implementation of BMPs would ensure that construction activities associated with the proposed Project would result in a less-than significant impact related to water quality.

As a standard Condition of Approval for development Projects in the City, the City's Department of Utilities requires preparation and submittal of Project-specific drainage studies. With submittal of the required drainage study, the Department of Utilities would review to ensure that adequate water quality control facilities are incorporated prior to approving the Improvement Plans for the proposed Project. It should be noted that the proposed Project would comply with Section 13.08.145, Mitigation of drainage impacts; design and procedures manual for water, sanitary sewer, storm drainage, and water quality facilities, of the City of Sacramento Code.

Design of the proposed Project and conformance with City and state regulations would ensure that a substantial degradation to water quality or violation of any water quality objectives due to increases in sediments and other contaminants generated by construction and/or development of the proposed Project would not occur. The proposed Project would not result in a Project-specific impact related to the degradation of water quality during construction, the proposed Project would result in no additional significant environmental effects beyond the effects analyzed in the Master EIR. Implementation of measures WQ-1 would further minimize potential impacts to water quality.

- B) Substantially increase the exposure of people and/or property to the risk of injury and damage in the event of a 100-year flood?

**No additional significant environmental effect.** The Project is located within the Federal Emergency Management Agency (FEMA) Zone X, area with reduced flood risk due to levee. As such, the proposed Project would not place housing or structures within a 100-year flood hazard area and no additional significant environmental effect would occur relative to flooding impacts analyzed in the Master EIR.

**MITIGATION MEASURES**

WQ-1: Water Quality BMPs will be incorporated into Project design and Project management to minimize impacts on the environment including erosion and the release of pollutants (e.g. oils, fuels):

- Exposed soils and material stockpiles would be stabilized, through watering or other measures, to prevent the movement of dust at the Project site caused by wind and construction activities such as traffic and grading activities;

- All construction roadway areas would be properly protected to prevent excess erosion, sedimentation, and water pollution;
- All vehicle and equipment fueling/maintenance would be conducted outside of any surface waters;
- Equipment used in and around jurisdictional waters must be in good working order and free of dripping or leaking contaminants;
- Raw cement, concrete or concrete washings, asphalt, paint or other coating material, oil or other petroleum products, or any other substances that could be hazardous to aquatic life shall be prevented from contaminating the soil or entering jurisdictional waters;
- All erosion control measures and storm water control measures would be properly maintained until the site has returned to a pre-construction state;
- All disturbed areas would be restored to pre-construction contours and revegetated, either through hydroseeding or other means, with native or approved non-invasive exotic species;
- All construction materials would be hauled off-site after completion of construction

#### **FINDINGS**

All additional significant environmental effects of the Project relating to Hydrology and Water Quality can be mitigated to a less-than-significant level.

**10. NOISE**

| Issues:   | Effect will be studied in the EIR | Effect can be mitigated to less than significant | No additional significant environmental effect |
|---|-----------------------------------|--|--|
| <p><b>10. NOISE</b><br/>Would the Project:</p> <p>A) Result in exterior noise levels in the Project area that are above the upper value of the normally acceptable category for various land uses due to the Project's noise level increases?</p> |                                   |  | X  |
| <p>B) Result in residential interior noise levels of 45 dBA Ldn or greater caused by noise level increases due to the Project?</p>  |                                   |  | X  |
| <p>C) Result in construction noise levels that exceed the standards in the City of Sacramento general plan or Noise Ordinance?</p>  |                                   |  | X  |
| <p>D) Permit existing and/or planned residential and commercial areas to be exposed to vibration-peak-particle velocities greater than 0.5 inches per second due to Project construction?</p>   |                                   |  | X  |
| <p>E) Permit adjacent residential and commercial areas to be exposed to vibration peak particle velocities greater than 0.5 inches per second due to highway traffic and rail operations?</p>   |                                   |  | X  |
| <p>F) Permit historic buildings and archaeological sites to be exposed to vibration-peak-particle velocities greater than 0.2 inches per second due to Project construction and highway traffic?</p>  |                                   |  | X  |

**ENVIRONMENTAL SETTING**

Land uses in the Project vicinity consist of Suburban Center, Suburban Neighborhood High and Low Density, and Parks and Recreation. The noise environment near the Project is dominated by traffic on Rio Linda Boulevard. The nearest sensitive receptors are single family homes and apartments that are adjacent to the site to the east and south, respectively.

**STANDARDS OF SIGNIFICANCE**

For purposes of this Initial Study, impacts due to noise may be considered significant if construction and/or implementation of the Proposed Project would result in the following impacts that remain significant after implementation of general plan policies:

- result in exterior noise levels in the Project area that are above the upper value of the normally acceptable category for various land uses due to the Project's noise level increases;
- result in residential interior noise levels of 45 dBA L<sub>dn</sub> or greater caused by noise level increases due to the Project;
- result in construction noise levels that exceed the standards in the City of Sacramento Noise Ordinance;

- permit existing and/or planned residential and commercial areas to be exposed to vibration-peak-particle velocities greater than 0.5 inches per second due to Project construction;
- permit adjacent residential and commercial areas to be exposed to vibration peak particle velocities greater than 0.5 inches per second due to highway traffic and rail operations; or
- permit historic buildings and archaeological sites to be exposed to vibration-peak-particle velocities greater than 0.2 inches per second due to Project construction and highway traffic.

**SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES**

The Master EIR evaluated the potential for development under the 2035 General Plan to increase noise levels in the community. New noise sources include vehicular traffic, aircraft, railways, light rail and stationary sources. The general plan policies establish exterior (Policy EC 3.1.1) and interior (Policy EC 3.1.3) noise standards. A variety of policies provide standards for the types of development envisioned in the general plan. See Policy EC 3.1.8, which requires new mixed-use, commercial and industrial development to mitigate the effects of noise from operations on adjoining sensitive land use, and Policy 3.1.9, which calls for the City to limit hours of operations for parks and active recreation areas to minimize disturbance to nearby residences. Notwithstanding application of the general plan policies, noise impacts for exterior noise levels (Impact 4.8-1) and interior noise levels (Impact 4.8-2), and vibration impacts (Impact 4.8-4) were found to be significant and unavoidable.

**ANSWERS TO CHECKLIST QUESTIONS**

- A) Result in exterior noise levels in the Project area that are above the upper value of the normally acceptable category for various land uses due to the Project's noise level increases?

**No additional significant environmental effect.** The proposed Project would be constructed on a developed parcel designated for urban development within an existing urbanized area. Existing noise within the proposed Project site includes noise from the operations of the adjacent church and homes, and traffic associated with Rio Linda Boulevard. The proposed Project would not change the land use or substantially change the nature of the surrounding neighborhood. Thus, proposed Project operations would not increase exterior noise levels in the proposed Project area that are above the upper value of the normally acceptable category for various land uses.

- B) Result in residential interior noise levels of 45 dBA Ldn or greater caused by noise level increases due to the Project?

**No additional significant environmental effect.** As discussed above, the Project site is located in an urban area which contains existing commercial buildings and would not change the land use or substantially change the nature of the surrounding neighborhood. The nearest sensitive receptors to the Project site are the single-family homes and apartments located to the east and south of the site, respectively. Given the distance between the proposed Project site and the nearest sensitive receptor, and the current land use of the surrounding area, the proposed Project would not result in residential interior noise levels of 45 dBA Ldn or greater. Thus, the proposed Project would have no additional significant environmental effect related to noise beyond what was previously evaluated in the Master EIR.

- C) Result in construction noise levels that exceed the standards in the City of Sacramento General Plan or Noise Ordinance?

**No additional significant environmental effect.** Noise from construction activities may intermittently dominate the immediate area of construction. Based on CalEEMod and the Federal Transit Administration data (Appendix A), activities in typical construction would generate maximum noise levels up to 89 dB at a distance of 50 feet, however, since the site is already graded, the maximum noise levels would be up to 85 dB at a distance of 50 feet. Noise produced by construction equipment would be reduced over distance at a rate of about 6 dB per doubling of distance. Additionally, construction operations that occur between 7:00 AM and 6:00 PM, Monday through Saturday and between 9:00 AM and 6:00 PM on Sundays are exempt from noise standards under City Code Section 8.68.080. The

contractor would be required to conduct work in accordance with the times listed. Thus, the proposed Project would have no additional significant environmental effect related to noise beyond what was previously evaluated in the Master EIR.

- D) Permit existing and/or planned residential and commercial areas to be exposed to vibration-peak-particle velocities greater than 0.5 inches per second due to Project construction?

**No additional significant environmental effect.** Construction of the proposed Project would not perceptibly increase groundborne vibration or groundborne noise since construction would not involve vibration creating activities such as pile driving.

- E) Permit adjacent residential and commercial areas to be exposed to vibration peak particle velocities greater than 0.5 inches per second due to highway traffic and rail operations?

**No additional significant environmental effect.** There are no new highway or railway operations associated with the construction of the proposed Project. The nearest highway is Highway 80 approximately 1.1 miles to the north, and the nearest railroad is approximately 1.5 miles to the southeast. There would be no impact.

- F) Permit historic buildings and archaeological sites to be exposed to vibration-peak-particle velocities greater than 0.2 inches per second due to Project construction and highway traffic?

**No additional significant environmental effect.** No historic buildings or archaeological sites have been identified within the proposed Project area. The buildings in the Project vicinity that would be impacted by construction are commercial and residential structures, none of which are considered extremely fragile, fragile, or historic buildings. Therefore, no historic buildings or archaeological sites would be exposed to vibration-peak-particle velocities greater than 0.2 inches per second due to Project construction and highway traffic. There would be no impact.

#### MITIGATION MEASURES

None.

#### Findings

All additional significant environmental effects of the Project relating to Noise can be mitigated to a less-than-significant level.

**11. PUBLIC SERVICES**

| Issues:  | Effect will be studied in the EIR | Effect can be mitigated to less than significant | No additional significant environmental effect |
|--|-----------------------------------|--|--|
| <p><b>11. PUBLIC SERVICES</b></p> <p>Would the Project result in the need for new or altered services related to fire protection, police protection, school facilities, or other governmental services beyond what was anticipated in the 2035 General Plan?</p> |                                   |  | X  |

**ENVIRONMENTAL SETTING**

Fire

The Sacramento Fire Department (SFD) provides fire protection services to the entire City and some small areas just outside the City boundaries within the County limits. Sacramento Fire Station 20 is the closest fire station to the Project site and is located at 2512 Rio Linda Boulevard, approximately 0.8 mile south of the proposed Project site.

Police

Police protection services are provided by the Sacramento Police Department (SPD) for areas within the City. The proposed Project site is within Police District 2 and the nearest police facility is located at 3550 Marysville Boulevard approximately 1.3 miles from the proposed Project site. In addition to the SPD and Sheriff's Department, the California Highway Patrol and the Regional Transit Police Department provide police protection within the City of Sacramento.

School District

The proposed Project site is within Sacramento City Unified School District. The proposed Project site is located approximately 0.6 miles from Martin Luther King Jr. Technology Academy. No detour to the school would be implemented due to the proposed Project.

**STANDARDS OF SIGNIFICANCE**

For the purposes of this Initial Study, an impact would be considered significant if the Project resulted in the need for new or altered services related to fire protection, police protection, school facilities, or other governmental services beyond what was anticipated in the 2035 General Plan.

**SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES**

The Master EIR evaluated the potential effects of the 2035 General Plan on various public services. These include police, fire protection, schools, libraries and emergency services (Chapter 4.10).

The general plan provides that adequate staffing levels for police and fire are important for the long-term health, safety and well-being of the community (Goal PHS 1.1, PHS 2.1). The Master EIR concluded that effects of development that could occur under the general plan would be less than significant.

General plan policies that call for the City to consider impacts of new development on schools (see, for example, Policy ERC 1.1.2 setting forth locational criteria, and Policy ERC 1.1.4 that encourages joint-use development of facilities) reduce impacts on schools to a less-than-significant level. (Impacts 4.10-3, 4) Impacts on library facilities were considered less than significant (Impact 4.10-5).

**ANSWERS TO CHECKLIST QUESTIONS**

- A) Would the Project result in the need for new or altered services related to fire protection, police protection, school facilities, or other governmental services beyond what was anticipated in the 2035 General Plan?

**No additional significant environmental effect.** The proposed Project is consistent with 2035 General Plan land use designations and current zoning. The proposed Project would not provide additional housing to the area and would not result in an increase in population. The proposed Project would not require the need for public facilities or governmental service beyond what has been anticipated in the 2035 General Plan. The proposed Project would have no additional significant effects that were not evaluated in the Master EIR.

**MITIGATION MEASURES**

None.

**FINDINGS**

The Project would have no additional Project-specific environmental effects relating to Public Services.

**12. RECREATION**

| Issues:   | Effect will be studied in the EIR | Effect can be mitigated to less than significant | No additional significant environmental effect |
|---|-----------------------------------|--|--|
| <b>11. RECREATION</b><br>Would the Project:<br><br>A) Cause or accelerate substantial physical deterioration of existing area parks or recreational facilities? |                                   |  | X  |
| B) Create a need for construction or expansion of recreational facilities beyond what was anticipated in the 2035 General Plan?                                 |                                   |  | X  |

**ENVIRONMENTAL SETTING**

The City Department of Youth, Parks and Community Enrichment maintains all parks and recreational facilities within the City. As noted in the City’s General Plan Background Report, the City currently contains 230 developed and undeveloped park sites, 88 miles of off-street bikeways and trails, 21 lakes/ponds or beaches, over 20 aquatic facilities, and extensive recreation facilities in the City parks. The developed park sites comprise 218 total parks with an area of 4,829 acres of parkland.

Residential and non-residential Projects that are built in the City are required to pay a park development impact fee per Chapter 18.56 of the Sacramento City Code. The fees collected pursuant to Chapter 18.56 are primarily used to finance the construction of neighborhood and community park facilities.

**STANDARDS OF SIGNIFICANCE**

For purposes of this Initial Study, impacts to recreational resources are considered significant if the proposed Project would do either of the following:

- cause or accelerate substantial physical deterioration of existing area parks or recreational facilities; or
- create a need for construction or expansion of recreational facilities beyond what was anticipated in the 2035 General Plan.

**SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES**

Chapter 4.9 of the Master EIR considered the effects of the 2035 General Plan on the City’s existing parkland, urban forest, recreational facilities and recreational services. The general plan identified a goal of providing an integrated park and recreation system in the City (Goal ERC 2.1). New residential development will be required to dedicate land, pay in-lieu fees or otherwise contribute a fair share to the acquisition and development of parks and recreation facilities (Policy ERC 2.2.5). Employees are expected to use park facilities at a lesser rate than residents. Within the Central City, workers are expected to use Neighborhood parks about 5 percent as much as local residents and are expected to use Community and Citywide parks and facilities about 20 percent as much as local residents. Within the Remaining City, workers are not expected to use Neighborhood parks (which are typically designed to serve local residents only), but are expected to use Community and Citywide parks and facilities about 20 percent as much as local residents (PIF Nexus Study 2017). Impacts were considered less than significant after application of the applicable policies. (Impacts 4.9-1 and 4.9-2)

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**ANSWERS TO CHECKLIST QUESTIONS**

- A) Cause or accelerate substantial physical deterioration of existing area parks or recreational facilities?

**No additional significant environmental effect.** The proposed Project would not increase the City's population and does not include a residential development therefore, the Project would not burden any parks in the surrounding area beyond capacity by generating additional recreational users. As such, the proposed Project would not increase the use of park and recreational facilities resulting in substantial physical deterioration of the facility. The proposed Project would result in no additional significant environmental effects beyond the effects analyzed in the Master EIR.

- B) Create a need for construction or expansion of recreational facilities beyond what was anticipated in the 2035 General Plan?

**No additional significant environmental effect.** The proposed Project would not include residential development or increase population; therefore, the Project would not create a need for construction or expansion of recreational facilities beyond what was anticipated in the 2035 General Plan.

**MITIGATION MEASURES**

None.

**FINDINGS**

The Project would have no additional Project-specific environmental effects relating to Recreation.

**13. TRANSPORTATION AND CIRCULATION**

| Issues:   | Effect will be studied in the EIR | Effect can be mitigated to less than significant | No additional significant environmental effect |
|---|-----------------------------------|--|--|
| 13. <u>TRANSPORTATION AND CIRCULATION</u><br>Would the Project:   |                                   |  |  |
| A) Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadways, bicycle, and pedestrian facilities?        |                                   |  | X  |
| B) Would the Project conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)?   |                                   |  | X  |
| C) Substantially increase hazards due to a geometric design feature (e.g. sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? |                                   |  | X  |
| D) Result in inadequate emergency access?   |                                   |  | X  |

**ENVIRONMENTAL SETTING**

Rio Linda Boulevard is a north-south major collector bordering the western edge of the proposed Project site. Rio Linda Boulevard connects the residential areas surrounding the site with Highway 80. Highway 80 is an east-west freeway located north of the proposed Project site, with ramps located approximately 1.5 miles from the site.

**STANDARDS OF SIGNIFICANCE**

**SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES**

Transportation and circulation were discussed in the Master EIR in Chapter 4.12. Various modes of travel were included in the analysis, including vehicular, transit, bicycle, pedestrian and aviation components. Provisions of the 2035 General Plan that provide substantial guidance include Mobility Goal 1.1, calling for a transportation system that is effectively planned, managed, operated and maintained, promotion of multimodal choices (Policy M 1.2.1), support for state highway expansion and management consistent with the Sacramento Area Council of Governments Metropolitan Transportation Plan/Sustainable Communities Strategy (SACOG MTP/SCS) (Policy M 1.5.6) and development that encourages walking and biking (Policy LU 4.2.1).

While the general plan includes numerous policies that direct the development of the City's transportation system, the Master EIR concluded that the general plan development would result in significant and unavoidable effects. See Impacts 4.12-3 (roadway segments in adjacent communities, and Impact 4.12-4 (freeway segments).

**ANSWERS TO CHECKLIST QUESTIONS**

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

**No additional significant environmental effect.** The proposed Project does not include any uses that would potentially conflict with an existing City program, ordinance, or policy that addresses circulation. The proposed Project is located along Rio Linda Boulevard, which currently contains bicycle lanes and sidewalks. Existing bicycle and pedestrian facilities would be maintained.

- B) Would the Project conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)?

**No additional significant environmental effect.** In December 2018, OPR published technical guidance recommending approaches to analyzing transportation and land use Projects. Since new retail development often redistributes trips rather than creating new travel demand, the OPR guidance recommends that lead agencies analyze the net change in VMT to indicate the transportation impact of retail Projects. The potential for VMT impacts, according to this approach, hinges on whether the Project can be considered local-serving or regional. By adding retail opportunities within existing neighborhoods, local serving retail Projects can shorten trips and reduce overall VMT. In contrast, regional destination retail Projects would draw customers from larger trade areas, potentially substituting for shorter trips and increasing VMT. The OPR guidance suggests that any retail Projects, including stores larger than 50,000 sf, might be considered as regional serving retail and therefore require an analysis of net change in VMT. As this Project is composed of a retail store totaling less than 50,000 sf, consistent with OPR Guidelines, it was determined that a quantitative analysis was not necessary. The Project would not Project conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b).

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

**No additional significant environmental effect.** The proposed Project would be built within the site of a former gas station. The Project has been designed to ensure existing ingress and egress and existing sight distances. The proposed Project does not include any unusual features design features or introduce incompatible users that could create a potentially hazardous situation.

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

**No additional significant environmental effect.** Access to the Project site would be provided via Florin Road and Franklin Boulevard, which would provide adequate emergency access during construction and upon completion of the Project.

#### **MITIGATION MEASURES**

None.

#### **FINDINGS**

The Project would have no additional Project-specific environmental effects relating to Transportation and Circulation.

**14. TRIBAL CULTURAL RESOURCES**

| Issues:   | Effect will be studied in the EIR | Effect can be mitigated to less than significant | No additional significant environmental effect |
|---|-----------------------------------|--|--|
| <p><b><u>14. TRIBAL CULTURAL RESOURCES</u></b><br/>                     Would the Project:</p> <p>A) Cause a substantial adverse change in the significance of a tribal cultural resource, as defined in Public Resources Code 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe and that is:</p> <p style="padding-left: 40px;">i. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources code section 5020.1(k) or</p> |                                   | X  |  |
| <p style="padding-left: 40px;">ii. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.</p>  |                                   | X  |  |

**ENVIRONMENTAL SETTING**

Please reference the Cultural Resources Chapter for the Ethnohistory of the historic indigenous groups that occupied the region. This section focuses on the contemporary tribal communities and tribal cultural resources as they pertain to AB52.

This section analyzes and evaluates the potential impacts of the project on Tribal cultural resources, both identified and undiscovered. Tribal cultural resources, as defined by Assembly Bill (AB) 52, Statutes of 2014, in Public Resources Code (PRC) Section 21074, are sites, features, places, cultural landscapes, sacred places and objects, with cultural value to a Tribe. A Tribal cultural landscape is defined as a geographic area (including both cultural and natural resources and the wildlife therein), associated with a historic event, activity, or person or exhibiting other cultural or aesthetic values.

The unanticipated find of Native American human remains would also be considered a Tribal cultural resource, and are therefore analyzed in this section. The proposed project area is situated within the lands traditionally occupied by the Valley Nisenan, or Southern Maidu. Many descendants of Valley Nisenan throughout the larger Sacramento region belong to the United Auburn Indian Community, Shingle Springs, Lone Band, Colfax-Todds Valley, and Wilton Rancheria Tribes. The Tribes actively participate in the identification, evaluation, preservation, and restoration of Tribal Cultural Resources.

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**DATA SOURCES/METHODOLOGY**

Under PRC section 21080.3.1 and 21082.3, the City must consult with tribes traditionally and culturally affiliated with the Project area that have requested formal notification and responded with a request for consultation. The parties must consult in good faith. Consultation is deemed concluded when the parties agree to measures to mitigate or avoid a significant effect on a tribal cultural resource when one is present or when a party concludes that mutual agreement cannot be reached. Mitigation measures agreed on during the consultation process must be recommended for inclusion in the environmental document.

In response to the City's notification of the Project to the United Auburn Indian Community of the Auburn Rancheria (UAIC), UAIC conducted a records search for the identification of Tribal Cultural Resources for this Project which included a review of pertinent literature and historic maps, and a records search using UAIC's Tribal Historic Information System (THRIS). UAIC's THRIS database is composed of UAIC's areas of oral history, ethnographic history, and places of cultural and religious significance, including UAIC Sacred Lands that are submitted to the Native American Heritage Commission (NAHC). The THRIS resources shown in this region also include previously recorded indigenous resources identified through the California Historic Resources Information System Center (CHRIS) as well as historic resources and survey data.

**NATIVE AMERICAN CONSULTATION**

On December 6, 2021 notifications were sent to the four tribes who've previously requested to receive notifications pursuant to Public Resources Code Section 21080.3.1 (AB 52).

**Native American Consultation**

On May 31, 2022, formal invitations to participate in Assembly Bill (AB52) consultation on the proposed project were sent by the City to the tribal representation that have previously requested to receive notifications of proposed projects pursuant to Public Resources Code Section 21080.3.1 (AB52). These tribes represented include:

- United Auburn Indian Community
- Wilton Rancheria
- Shingle Springs Band of Mi-Wok Indians
- Buena Vista Rancheria of Me-Wuk Indians

The United Auburn Indian Community provided a response to AB52 consultation on May 31, 2022, and closed consultation on June 28, 2022, ultimately declining to consult on the project with the inclusion of the unanticipated discoveries mitigation measure. No response was received from Wilton Rancheria, the Shingle Springs Band of Mi-Wok Indians, or the Buena Vista Rancheria of Me-Wuk Indians within 30 calendar days of the request for formal invitation under AB52.

**Regulatory Setting**

**FEDERAL**

There are no Federal plans, policies, or regulations related to Tribal Cultural Resources that are directly applicable to the proposed Project, however Section 106 of the National Historic Preservation Act does require consultation with Native Americans to identify and consider certain types of cultural resources. Cultural resources of Native American origin identified as a result of the identification efforts conducted under Section 106 may also qualify as tribal cultural resources under CEQA.

**STATE**

**California Environmental Quality Act — Statute and Guidelines.** CEQA requires that public agencies that finance or approve public or private Projects must assess the effects of the Project on tribal cultural resources. Tribal cultural resources are defined in Public Resources Code (PRC) 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe that is (1) listed or determined eligible for listing on the California Register of Historical Resources (CRHR) or a local register, or (2) that are determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of PRC Section 5024.1. In applying the criteria set forth in subdivision (c) of PRC Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American Tribe.

**California Public Resources Code Section 5024.** PRC Section 5024.1 establishes the CRHR, which is the authoritative guide for identifying the State’s historical resources to indicate what properties are to be protected, if feasible, from substantial adverse change. For a resource to be eligible for the CRHR, it must be more than 50 years old, retain its historic integrity, and satisfy one or more of the following criteria:

1. Is associated with events that have made a significant contribution to the broad patterns of California’s history and cultural heritage.
2. Is associated with the lives of persons important in our past.
3. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.
4. Has yielded, or may be likely to yield, information important in prehistory or history.

**STANDARDS OF SIGNIFICANCE**

For the purposes of this Initial Study, a tribal cultural resource is considered to be a significant resource if the resource is: 1) listed or eligible for listing in the California Register of Historical Resources or in a local register of historical resources; or 2) the resource has been determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. For purposes of this Initial Study, impacts on tribal cultural resources may be considered significant if construction and/or implementation of the proposed Project would result in the following:

- cause a substantial change in the significance of a tribal cultural resource as defined in Public Resources Code 21074.

**SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES**

The Master EIR evaluated the potential effects of development under the 2035 General Plan on prehistoric and historic resources (see Master EIR Chapter 4.4 and Appendix D – Background Report, B. Cultural Resources Appendix), but did not specifically address tribal cultural resources because that resource type had not yet been defined in CEQA at the time the Master EIR was adopted. The Master EIR identified significant and unavoidable effects on historic resources and archaeological resources, some of which could be tribal cultural resources as defined Public Resources Code 21074. Ground-disturbing activities resulting from implementation of development under the 2035 General Plan could affect the integrity of an archaeological site (which may be a tribal cultural resource), thereby causing a substantial change in the significance of the resource. General plan policies identified as reducing such effects on cultural resources that may also be tribal cultural resources include identification of resources on Project sites (Policy HCR 2.1.1); implementation of applicable laws and regulations (Policy HCR 2.1.2); consultation with appropriate organizations and individuals including the Native American Heritage Commission and implementation of their consultation guidelines (Policy HCR 2.1.3); enforcement programs to promote the maintenance, rehabilitation, preservation, and interpretation of the City’s historic resources (Policy HCR 2.1.4); listing of qualified historic resources under appropriate national, State, and local registers (Policy HCR 2.1.5); consideration of historic and cultural resources in planning studies

(Policy HCR 2.1.6); enforcement of compliance with local, State, and federal historic and cultural preservation requirements (Policy HCR 2.1.8); and early consultation with owners and land developers to minimize effects (Policy HCR 2.1.10).

Of particular relevance to this Project are policies that ensure compliance with protocol that protect or mitigate impacts to archaeological resources (Policy HCR 2.1.16) and that encourage preservation and minimization of impacts on cultural resources (Policy HCR 2.1.17).

**ANSWERS TO CHECKLIST QUESTIONS –**

- A) Cause a substantial adverse change in the significance of a tribal cultural resource, as defined in Public Resources Code 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe and that is:
- i. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources code section 5020.1(k)
  - ii. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

**Effect can be mitigated to less than significant.** As described in Section 4 – Cultural Resources, the existing record searches did not identify known archaeological resources that could be considered tribal cultural resources, listed or determined eligible for listing in the California Register, or included in a local register of historical resources as defined in PRC Section 5020.1(k), pursuant to PRC Section 21074(a)(1) in the Project site.

As described above, according to the provision of PRC Section 21080.3, four Native American tribes have requested to receive notification of Projects in the jurisdiction of the City of Sacramento. One tribe responded, the United Auburn Indian Community (UAIC) responded to the formal notification for AB52 consultation and declined consultation on June 28, 2023. No other tribe responded within 30 days of receipt of the formal notification and requested consultation on this project.

**MITIGATION MEASURES**

**TCR-1b: In the Event that Tribal Cultural Resources Are Discovered During Construction, Implement Avoidance and Minimization Measures to Avoid Significant Impacts and Procedures to Evaluate Resources.**

If tribal cultural resources (such as structural features, unusual amounts of bone or shell, artifacts, or human remains) are encountered at the project site during construction, work shall be suspended within 100 feet of the find (based on the apparent distribution of cultural materials), and the construction contractor shall immediately notify the project's City representative. Avoidance and preservation in place is the preferred manner of mitigating impacts to tribal cultural resources. This will be accomplished, if feasible, by several alternative means, including:

- Planning construction to avoid tribal cultural resources, archaeological sites and/or other cultural resources; incorporating cultural resources within parks, green-space or other open space; covering archaeological resources; deeding a cultural resource to a permanent conservation easement; or other preservation and protection methods agreeable to consulting parties and regulatory authorities with jurisdiction over the activity.

---

- Recommendations for avoidance of tribal cultural resources will be reviewed by the City representative, interested culturally affiliated Native American tribes and other appropriate agencies, in light of factors such as costs, logistics, feasibility, design, technology and social, cultural and environmental considerations, and the extent to which avoidance is consistent with project objectives. Avoidance and design alternatives may include realignment within the project site to avoid tribal cultural resources, modification of the design to eliminate or reduce impacts to tribal cultural resources or modification or realignment to avoid highly significant features within a cultural resource or tribal cultural resource. • Native American representatives from interested culturally affiliated Native American tribes will be notified to review and comment on these analyses and shall have the opportunity to meet with the City representative and its representatives who have technical expertise to identify and recommend feasible avoidance and design alternatives, so that appropriate and feasible avoidance and design alternatives can be identified.

- If the discovered tribal cultural resource can be avoided, the construction contractor(s), will install protective fencing outside the site boundary, including a 100-foot buffer area, before construction restarts. The boundary of a a tribal cultural resource will be determined in consultation with interested culturally affiliated Native American tribes and tribes will be notified to monitor the installation of fencing. Use of temporary and permanent forms of protective fencing will be determined in consultation with Native American representatives from interested culturally affiliated Native American tribes.

- The construction contractor(s) will maintain the protective fencing throughout construction to avoid the site during all remaining phases of construction. The area will be demarcated as an “Environmentally Sensitive Area”.

If a tribal cultural resource cannot be avoided, the following performance standard shall be met prior to continuance of construction and associated activities that may result in damage to or destruction of tribal cultural resources:

- Each resource will be evaluated for California Register of Historical Resources- (CRHR) eligibility through application of established eligibility criteria (California Code of Regulations 15064.636), in consultation with consulting Native American Tribes, as applicable.

If a a tribal cultural resource is determined to be eligible for listing in the CRHR, the City will avoid damaging effects to the resource in accordance with California PRC Section 21084.3, if feasible. The City shall coordinate the investigation of the find with a qualified archaeologist (meeting the Secretary of the Interior’s Professional Qualifications Standards for Archeology) approved by the City and with interested culturally affiliated Native American tribes that respond to the City’s notification. As part of the site investigation and resource assessment, the City and the archaeologist shall consult with interested culturally affiliated Native American tribes to assess the significance of the find, make recommendations for further evaluation and treatment as necessary and provide proper management recommendations should potential impacts to the resources be determined by the City to be significant. A written report detailing the site assessment, coordination activities, and management recommendations shall be provided to the City representative by the qualified archaeologist. These recommendations will be documented in the project record. For any recommendations made by interested culturally affiliated Native American tribes that are not implemented, a justification for why the recommendation was not followed will be provided in the project record.

Native American representatives from interested culturally affiliated Native American Tribes and the City representative will also consult to develop measures for long-term management of any discovered tribal cultural resources. Consultation will be limited to actions consistent with the jurisdiction of the City and taking into account ownership of the subject property.

subject property. To the extent that the City has jurisdiction, routine operation and maintenance within tribal cultural resources retaining tribal cultural integrity shall be consistent with the avoidance and minimization standards identified in this mitigation measure.

If the City determines that the project may cause a significant impact to a tribal cultural resource, and measures are not otherwise identified in the consultation process, the following are examples of mitigation capable of avoiding or substantially lessening potential significant impacts to a tribal cultural resource or alternatives that would avoid significant impacts to the resource. These measures may be considered to avoid or minimize significant adverse impacts and constitute the standard by which an impact conclusion of less-than significant may be reached:

- Avoid and preserve resources in place, including, but not limited to, planning construction to avoid the resources and protect the cultural and natural context, or planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.
- Treat the resource with culturally appropriate dignity taking into account the Tribal cultural values and meaning of the resource, including, but not limited to, the following:
  - Protect the cultural character and integrity of the resource.
  - Protect the traditional use of the resource.
  - Protect the confidentiality of the resource.
- Establish permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or using the resources or places.
- Protect the resource.

**TCR-1c: Implement Procedures in the Event of the Inadvertent Discovery of Human Remains.**

If an inadvertent discovery of human remains is made at any time during project-related construction activities or project planning, the City the following performance standards shall be met prior to implementing or continuing actions such as construction, which may result in damage to or destruction of human remains. In accordance with the California Health and Safety Code (HSC), if human remains are encountered during ground-disturbing activities, the City shall immediately halt potentially damaging excavation in the area of the remains and notify the Sacramento County Coroner and a professional archaeologist to determine the nature of the remains. The Coroner is required to examine all discoveries of human remains within 48 hours of receiving notice of a discovery on private or State lands (HSC Section 7050.5[b]).

If the human remains are of historic age and are determined to be not of Native American origin, the City will follow the provisions of the HSC Section 7000 (et seq.) regarding the disinterment and removal of non-Native American human remains.

If the Coroner determines that the remains are those of a Native American, he or she must contact the Native American Heritage Commission (NAHC) by phone within 24 hours of making that determination (HSC Section 7050[c]). After the Coroner's findings have been made, the archaeologist and the NAHC-designated Most Likely Descendant (MLD), in consultation with the landowner, shall determine the ultimate treatment and disposition of

**THE REMAINS. THE RESPONSIBILITIES OF THE CITY FOR ACTING UPON NOTIFICATION OF A DISCOVERY OF NATIVE AMERICAN HUMAN REMAINS ARE IDENTIFIED IN CALIFORNIA PRC SECTION 5097.9 ET SEQ.**

If an inadvertent discovery of human remains is made at any time during Project-related construction activities or Project planning, the City the following performance standards shall be met prior to implementing or continuing actions such as construction, which may result in damage to or destruction of human remains. In accordance with the California Health and Safety Code (HSC), if human remains are encountered during ground-disturbing activities, the City shall immediately halt potentially damaging excavation in the area of the remains and notify the Sacramento County Coroner and a professional archaeologist to determine the nature of the remains. The Coroner is required to examine all discoveries of human remains within 48 hours of receiving notice of a discovery on private or State lands (HSC Section 7050.5[b]).

If the human remains are of historic age and are determined to be not of Native American origin, the City will follow the provisions of the HSC Section 7000 (et seq.) regarding the disinterment and removal of non-Native American human remains.

If the Coroner determines that the remains are those of a Native American, he or she must contact the Native American Heritage Commission (NAHC) by phone within 24 hours of making that determination (HSC Section 7050[c]). After the Coroner's findings have been made, the archaeologist and the NAHC-designated Most Likely Descendant (MLD), in consultation with the landowner, shall determine the ultimate treatment and disposition of the remains. The responsibilities of the City for acting upon notification of a discovery of Native American human remains are identified in California PRC Section 5097.9 et seq.

### **Findings**

With the implementation of the mitigation measures listed above, impacts related to Tribal Cultural Resources would be less than significant.

**15. UTILITIES AND SERVICE SYSTEMS**

| Issues:  | Effect will be studied in the EIR | Effect can be mitigated to less than significant | No additional significant environmental effect |
|--|-----------------------------------|--|--|
| <p><b>15. UTILITIES AND SERVICE SYSTEMS</b><br/>                     Would the Project:</p> <p>A) Result in the determination that adequate capacity is not available to serve the Project’s demand in addition to existing commitments?</p> |                                   |  | X  |
| <p>B) Require or result in either the construction of new utilities or the expansion of existing utilities, the construction of which could cause significant environmental impacts?</p>   |                                   |  | X  |

**ENVIRONMENTAL SETTING**

Wastewater collection and treatment services for the proposed Project would be provided by the City of Sacramento (City). Wastewater generated from the Project area is collected in the City system through a series of sewer pipes and pump stations. Once collected in the City system, sewage flows into the SRCSD interceptor system, where the sewage is conveyed to the Sacramento Regional Wastewater Treatment Plant (SRWWTP) located near Elk Grove. The City’s Department of Utilities is responsible for providing and maintaining water, sewer collection, storm drainage, and flood control services for residents and businesses within city limits.

Water service for the proposed Project would be provided by the City. The City uses surface water from the Sacramento and American rivers to meet the majority of its water demands. To meet the City’s water demand, the City uses surface water from the Sacramento and American rivers, and groundwater pumped from the North American and South American Subbasins.

The City does not provide commercial solid waste collection services. Rather, commercial garbage, recycling or yard waste services are provided by a franchised hauler authorized by the Sacramento Solid Waste Authority to collect commercial garbage and commingled recycling within the City. Kiefer Landfill, located at 12701 Kiefer Boulevard in Sloughhouse, California, is the primary location for the disposal of waste by the City. According to the Master EIR, the landfill is permitted to accept up to 10,815 tons per day and the current peak and average daily disposal is much lower than the permitted amount. The landfill is anticipated to be capable of adequately serving the area, including the anticipated population growth, until the year 2065. Solid waste collected at commercial uses in the Project area is currently disposed of at the Kiefer Landfill.

**STANDARDS OF SIGNIFICANCE**

For the purposes of this Initial Study, an impact would be considered significant if the Project resulted in the need for new or altered services related to fire protection, police protection, or school facilities beyond what was anticipated in the 2035 General Plan:

- result in the determination that adequate capacity is not available to serve the Project’s demand in addition to existing commitments or
- require or result in either the construction of new utilities or the expansion of existing utilities, the construction of which could cause significant environmental impacts.

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**SUMMARY OF ANALYSIS UNDER THE 2035 GENERAL PLAN MASTER EIR AND APPLICABLE GENERAL PLAN POLICIES**

The Master EIR evaluated the effects of development under the 2035 General Plan on water supply, sewer and storm drainage, solid waste, electricity, natural gas and telecommunications. See Chapter 4.11.

The Master EIR evaluated the impacts of increased demand for water that would occur with development under the 2035 General Plan. Policies in the general plan would reduce the impact generally to a less-than-significant level (see Impact 4.11-1) but the Master EIR concluded that the potential increase in demand for potable water in excess of the City's existing diversion and treatment capacity, and which could require construction of new water supply facilities, would result in a significant and unavoidable effect (Impact 4.11-2). The potential need for expansion of wastewater treatment facilities was identified as having a less-than-significant effect (Impact 4.11-4). Impacts on solid waste facilities were less than significant (Impact 4.11-5). Implementation of energy efficient standards as set forth in Titles 20 and 24 of the California Code of Regulations for residential and non-residential buildings, would reduce effects for energy to a less-than-significant level.

**ANSWERS TO CHECKLIST QUESTIONS**

- A) Result in the determination that adequate capacity is not available to serve the project's demand in addition to existing commitments?

**No additional significant environmental effect.** The Project site includes existing on-site structures. Thus, all urban utilities and services are available to the Project site.

The City of Sacramento is responsible for sewer collection in the proposed Project area. The City of Sacramento has anticipated the need for wastewater services in the Project area and requires development impact fees to support buildout demand of their service area (including the proposed Project site). City of Sacramento's pipelines eventually flow to the City of Sacramento, where wastewater is treated. The City of Sacramento would be able to provide sufficient wastewater services and conveyance to serve full buildout of the City, including the Project area, per the 2035 Master EIR. Therefore, adequate capacity exists to serve the wastewater demand associated with buildout of the proposed Project site with commercial uses.

The City is responsible for providing and maintaining water for the proposed Project site. The Urban Water Management Plan analyzes the water supply, water demand, and water shortage contingency planning for the City's service area, which would include the proposed Project site. According to the City's Urban Water Management Plan (UWMP), under all drought conditions, the City possesses sufficient water supply entitlements to meet the demands of the City's customers up to the year 2035. Development of the proposed Project would increase water demand associated with the Project site. However, the proposed Project would be consistent with the site's existing General Plan land use and zoning designations. Therefore, such increases in water demand are within the capacities anticipated within the City's UWMP and analyzed in the Master EIR.

Solid waste from existing development in the proposed Project area is transferred to Kiefer Landfill for disposal. The 2035 General Plan Master EIR concluded that adequate capacity at local landfills exists for full buildout of the general plan. The proposed Project is consistent with what is anticipated for the site, and the associated increase in solid waste disposal needs was considered in the 2035 General Plan Master EIR analysis. The gas station and retail building would not generate an increase in solid waste from what has been anticipated in the Master EIR. As such, adequate capacity would be expected to be available to serve the proposed Project's solid waste disposal needs.

- B) Require or result in either the construction of new utilities or the expansion of existing utilities, the construction of which could cause significant environmental impacts?

**No additional significant environmental effect.** Because adequate capacity exists to serve the proposed Project's demands in addition to existing commitments, no construction of new utilities or expansion of existing facilities would be required. Implementation of the proposed Project would result in no additional environmental effects beyond what was analyzed in the 2035 Master EIR.

**MITIGATION MEASURES**

None.

**FINDINGS**

The Project would have no additional Project-specific environmental effects relating to Utilities and Service Systems.

**16. MANDATORY FINDINGS OF SIGNIFICANCE**

| Issues:  | Effect remains significant with all identified mitigation | Effect can be mitigated to less than significant | No additional significant environmental effect |
|--|---|--|--|
| <p><b>16. MANDATORY FINDINGS OF SIGNIFICANCE</b></p> <p>A) Does the Project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?</p> |   | X  |  |
| <p>B) Does the Project have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a Project are considerable when viewed in connection with the effects of past Projects, the effects of other current Projects, and the effects of probable future Projects.)</p>  |   |  | X  |
| <p>C) Does the Project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?</p>   |   | X  |  |

**Answers to Checklist Questions**

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

**Effect can be mitigated to less than significant.** After a careful comparison between habitat requirements and the habitat available within the proposed Project area, no special status species were determined to have the potential to occur within the Project area. As such, the Project is not anticipated to result in the substantial degradation of the quality of the environment, reduction of the habitat, or reduction of population below self-sustaining levels of threatened or endangered species.

The proposed Project does have the potential to impact previously undiscovered cultural and tribal cultural resources and/or human remains. With implementation of measures CR-1, CR-2, TCR-1a, and TCR-1b, impacts would be reduced to less than significant levels.

With implementation of the mitigation measures identified in this IS, compliance with City 2035 General Plan policies, and application of standard BMPs during construction, development of the proposed Project would not result in any of the following: 1) degrade the quality of the environment; 2) substantially reduce or impact the habitat of fish or wildlife species; 3) cause fish or wildlife populations to drop below self-sustaining levels; 4) threaten to eliminate a plant or animal community; 5) reduce the number or restrict the range of a rare or endangered plant or animal; or 6) eliminate important examples of the major periods of California history or prehistory. Therefore, the proposed Project’s impact would be mitigated to

a less than significant level.

- B) Does the Project have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a Project are considerable when viewed in connection with the effects of past Projects, the effects of other current Projects, and the effects of probable future Projects.)

**No additional significant environmental effect.** The proposed Project is consistent with the General Plan and the findings in the Master EIR and would not result in individually limited but collectively significant impacts. Therefore, the Project would not cause any additional environmental effects.

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

**Effect can be mitigated to less than significant.** The Project would not result in either direct or indirect substantial adverse effects on human beings. Air quality, water quality, hazards, and noise can be reduced to less-than-significant levels through implementation of the mitigation measures included in this study (AQ-1, AQ-2, HAZ-1, WQ-1, and NOI-1).

**SECTION IV - ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED**

---

The environmental factors checked below would potentially be affected by this Project.

- |   |   |
|---|---|
| <input type="checkbox"/> Aesthetics                             | <input type="checkbox"/> Noise                                |
| <input checked="" type="checkbox"/> Air Quality                 | <input type="checkbox"/> Public Services                      |
| <input checked="" type="checkbox"/> Biological Resources        | <input type="checkbox"/> Recreation                           |
| <input checked="" type="checkbox"/> Cultural Resources          | <input type="checkbox"/> Transportation/Circulation           |
| <input type="checkbox"/> Energy and Mineral Resources           | <input checked="" type="checkbox"/> Tribal Cultural Resources |
| <input type="checkbox"/> Geology and Soils                      | <input type="checkbox"/> Utilities and Service Systems        |
| <input checked="" type="checkbox"/> Hazards                     | <input checked="" type="checkbox"/> Greenhouse Gas Emissions  |
| <input checked="" type="checkbox"/> Hydrology and Water Quality | <input type="checkbox"/>                                      |

SECTION V - DETERMINATION

---

On the basis of the initial study:

**Note: The applicable paragraph should be included, and the others deleted. Questions regarding the findings should be directed to the environmental Project planner.**

I find that (a) the proposed Project is an anticipated subsequent Project identified and described in the 2035 General Plan Master EIR; (b) the proposed Project is consistent with the 2035 General Plan land use designation and the permissible densities and intensities of use for the Project site; (c) that the discussions of cumulative impacts, growth inducing impacts, and irreversible significant effects in the Master EIR are adequate for the proposed Project; and (d) the proposed Project will have additional significant environmental effects not previously examined in the Master EIR. A Mitigated Negative Declaration will be prepared. Mitigation measures from the Master EIR will be applied to the Project as appropriate, and additional feasible mitigation measures and alternatives will be incorporated to revise the proposed Project before the negative declaration is circulated for public review, to avoid or mitigate the identified effects to a level of insignificance. (CEQA Guidelines Section 15178(b))

*Ron Bess*

\_\_\_\_\_  
Signature

August 29, 2023

\_\_\_\_\_  
Date

Ron Bess

\_\_\_\_\_  
Printed Name

---

**REFERENCES CITED**

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California Air Pollution Control Officers Association, 2022: CalEEMod version 2020.4

California Department of Conservation, 2022: Geologic Map of California

City of Sacramento, 2015: 2035 General Plan.

City of Sacramento, 2015: Sacramento 2035 General Plan Master Environmental Impact Report

City of Sacramento, 2022: Preliminary Climate Action and Adaptation Plan

City of Sacramento, 2022: Sacramento City Code

NRCS, 2023: Web Soil Survey

Sacramento Metropolitan Air Quality Management District, 2020: SMAQMD Thresholds of Significance  
Table



Corporate Headquarters  
1322 E. Shaw Avenue, Suite 400 Fresno, CA, 93710  
www.soarhere.com • 559.547.8884

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# CALEEMOD AIR QUALITY/GHG AND NOISE STUDY

**3200 Rio Linda Boulevard  
Sacramento, CA 95815**

*Prepared for*

**Sarita Prasad  
427 Santa Ana Avenue  
Sacramento, CA 95738**

*Prepared by*



1322 Shaw Ave  
Fresno, CA 93721

**April 24, 2023**



Corporate Headquarters  
1322 E. Shaw Avenue, Suite 400 Fresno, CA, 93710  
www.soarhere.com • 559.547.8884

April 24, 2023

**Sarita Prasad**  
427 Santa Ana Avenue  
Sacramento, CA 95738

**RE: CalEEMod Air Quality/GHG and Noise Study**

Ms. Prasad,

Soar Environmental Consulting, Inc. has performed this assessment under my supervision according to generally accepted environmental practices and procedures, as of the date of this report. I declare to the best of my professional knowledge and belief, I meet the definition of an environmental professional as defined in 312.10 of 40 CFR 312. I have employed the degree of care and skill ordinarily exercised under similar circumstances by reputable environmental professionals practicing in this area.

The conclusions contained within this assessment are based upon site conditions readily observed or were reasonably ascertainable.

*Matthew D. Fidel*

Matthew D. Fidel  
MS Env. Engineering, PMC  
Senior Environmental Project Manager  
Soar Environmental Consulting



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## APPENDICES

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## 1. Project Description

The proposed Project is located at 3200 Rio Linda Boulevard, Sacramento, CA 95738, and involves the rehabilitation of the subject property for a gas station and retail building. The approximately 0.5-acre parcel is currently occupied by a non-functioning gas station and retail building. The nearest sensitive receptors are the single-family residences adjacent to the property to the east and south. A church is located adjacent to the west. The nearest school to the Project site is Martin Luther King Jr. Technological Academy located approximately 0.33 miles southeast of the Project site. The nearest airport is Sacramento McClellan Airport, approximately 3 miles northeast east of the Project site.

## 2. Assumptions

The following basic assumptions were used in developing the emission estimates for the proposed project using CalEEMod:

- CalEEMod defaults were applied to all phases of the project unless otherwise specified.
- Institute of Traffic Engineers (ITE) default trip distances for Sacramento County, as contained in CalEEMod, were assumed for the operational traffic analysis.
- Some project design features including sizes and the number of buildings were defined by the Applicant and replaced with some CalEEMod default settings.
- CalEEMod construction timelines are generally accurate unless otherwise stated.
- During the site preparation and grading phases of construction, it is anticipated that no soil will need to be exported from or imported to the project site.
- The default equipment from CalEEMod for each construction phase is representative of actual construction equipment used during construction.

## 3. Air Quality and Greenhouse Gas Impacts Analysis

The California Environmental Quality Act (CEQA), Appendix G Guidelines contains an Environmental Checklist Form which consists of a series of questions that are intended to encourage a thoughtful assessment of impacts. To evaluate the questions in the Air Quality and Greenhouse Gas Emissions Sections of the checklist, quantitative significance criteria established by the local air quality agency, such as SMAQMD, may be relied upon to make significance determinations based on mass emissions of criteria pollutants and GHGs, as determined in this report.

### 3.1 Project Emissions Estimation

A construction and operation analysis were performed using CalEEMod version 2020.4.0, the official statewide land use computer model designed to provide a uniform platform for estimating potential criteria pollutant and GHG emissions associated with both construction and operations of land use projects under CEQA. The model quantifies direct emissions from construction and operations (including vehicle use), as well as indirect emissions, such as GHG emissions from energy use, solid waste disposal, vegetation planting and/or removal, and water use. The mobile source emission factors used in the model published by the California Air Resources Board (CARB) include the Pavley standards and Low Carbon Fuel



standards. The model also identifies project design features, regulatory measures, and mitigation measures to reduce criteria pollutant and GHG emissions along with calculating the benefits achieved from the selected measures. CalEEMod was developed by the California Air Pollution Control Officers Association (CAPCOA) in collaboration with the San Joaquin Valley Air Pollution Control District (SJVAPCD), the Bay Area Air Quality Management District (BAAQMD), the South Coast Air Quality Management District (SCAQMD), and other California air districts. Default land use data (e.g., emission factors, trip lengths, meteorology, source inventory, etc.) were provided by the various California air districts to account for local requirements and conditions. As the official assessment methodology for land use projects in California, CalEEMod is relied upon herein for construction and operational emissions quantification, which forms the basis for the impact analysis.

Based on information received from the Applicant, land use data for CalEEMod input is presented in Table 1. The total parcel area is 0.5-acre. The SMAQMD quantitative significance thresholds shown in Table 2 were used to evaluate project emissions impacts (SMAQMD 2020).

**Table 1**  
**Land Use Data for CalEEMod Input**

| Land Uses                    | Size      | Metric     | Lot Acreage | Floor Surface Area (Approx.) | Population (Approx.) |
|------------------------------|-----------|------------|-------------|------------------------------|----------------------|
| Convenience Market (24 hour) | 2.00      | 1,000 sqft | 0.05        | 2,000 sqft                   | 0                    |
| Parking Lot                  | 0.23      | Acre       | 0.23        | 10,018 sqft                  | 0                    |
| Gasoline/Service Station     | 4.00      | Pump       | 0.01        | 564 sqft                     | 0                    |
| <b>Total</b>                 | <b>NA</b> | <b>NA</b>  | <b>0.29</b> | <b>12,582 sqft</b>           | <b>0</b>             |

**Source: CalEEMod version 2020.4.0**



**Table 2**  
**SMAQMD CEQA Thresholds of Significance**

| Pollutant / Precursor | Construction-Related Emissions  |                 | Operational Emissions   |          |
|-----------------------|---|-----------------|---|----------|
|                       | (lb/day)  | (T/year)        | (lb/day)  | (T/year) |
| NOx                   | 85  | 15.5            | 65  | 11.9     |
| ROG                   | N/A   | N/A             | 65  | 11.9     |
| PM10                  | 0<br>(If all feasible BACT/BMPs are applied, then 80 pounds/day and 14.6 tons/year) | 14.6            | 0<br>(If all feasible BACT/BMPs are applied, then 80 pounds/day and 14.6 tons/year)   | 14.6     |
| PM2.5                 | 0<br>(If all feasible BACT/BMPs are applied, then 82 pounds/day and 15 tons/year)   | 15              | 0<br>(If all feasible BACT/BMPs are applied, then 82 pounds/day and 15 tons/year)   | 15       |
| GHG as CO2e           | 1,100 (MT/year)   | 1,100 (MT/year) | Demonstrate consistency with the Climate Change Scoping Plan by implementing applicable Best Management Practices (BMP), or equivalent on-site or off-site mitigation |          |

**Source: SMAQMD 2020**

### 3.2 Criteria Pollutants from Project Construction

A project’s construction phase produces many types of emissions, but PM10 and PM2.5 in fugitive dust and diesel engine exhaust are the pollutants of greatest concern. Fugitive dust emissions can result from a variety of construction activities, including excavation, grading, demolition, vehicle travel on paved and unpaved surfaces, and vehicle exhaust. Construction-related emissions can cause substantial increases in localized concentrations of PM10, as well as affect PM10 compliance with ambient air quality standards on a regional basis. Particulate emissions from construction activities can lead to adverse health effects as well as nuisance concerns such as reduced visibility and soiling of exposed surfaces. The use of diesel-powered construction equipment emits ozone precursors oxides of nitrogen (NOx) and reactive organic gases (ROG), and diesel particulate matter (DPM). The use of architectural coatings and other materials



associated with finishing buildings may also emit Reactive Organic Gases (ROG). CEQA significant thresholds address the impacts of construction activity emissions on local and regional air quality.

PM10 emitted during construction can vary greatly depending on the level of activity, the specific operations taking place, the equipment being operated, local soils, weather conditions, and other factors making quantification difficult. Despite this variability in emissions, experience has shown that several feasible control measures can be reasonably implemented to significantly reduce fugitive dust emissions from construction.

### **3.3 Criteria Pollutants from Project Operation**

The term “Project operations” refers to the full range of activities that can or may generate criteria pollutant and GHG emissions when the project is functioning in its intended use. For projects, such as office parks, shopping centers, apartment buildings, residential subdivisions, and other indirect sources, motor vehicles traveling to and from the project represent the primary source of air pollutant emissions. For industrial projects and some commercial projects, equipment operation, and manufacturing processes, (i.e., permitted stationary sources, can be of greatest concern from an emissions standpoint). CEQA significance thresholds address the impacts of operational emission sources on local and regional air quality. For this analysis, the CalEEMod-generated default trip rate was used for calculating project operation emissions.

### **3.4 Regulatory Setting**

#### **3.4.1 Federal**

##### **Clean Air Act**

The Clean Air Act (CAA) of 1970 and the CAA Amendments of 1971 required the USEPA to establish the National Ambient Air Quality Standards (NAAQS), with states retaining the option to adopt more stringent standards or to include other specific pollutants. On April 2, 2007, the Supreme Court found that carbon dioxide (CO<sub>2</sub>) is an air pollutant covered by the CAA; however, no NAAQS has been established for CO<sub>2</sub>.

These standards are the levels of air quality considered safe, with an adequate margin of safety, to protect public health and welfare. They are designed to protect those “sensitive receptors” most susceptible to further respiratory distress such as asthmatics, the elderly, very young children, people already weakened by other diseases or illnesses, and persons engaged in strenuous work or exercise. Healthy adults can tolerate occasional exposure to air pollutant concentrations considerably above these minimum standards before adverse effects are observed. The USEPA has classified air basins (or portions thereof) as being in attainment, nonattainment, or unclassified for each criteria air pollutant, based on whether the NAAQS have been achieved.



### **3.4.2 State**

#### **California Clean Air Act**

The California Clean Air Act (CCAA) allows the state to adopt ambient air quality standards and other regulations if they are at least as stringent as federal standards. California Air Resources Board (CARB), a part of the California Environmental Protection Agency, is responsible for the coordination and administration of both federal and state air pollution control programs within California, including setting the California Ambient Air Quality Standards (CAAQS). CARB also conducts research, compiles emission inventories, develops suggested control measures, and provides oversight of local programs. CARB establishes emissions standards for motor vehicles sold in California, consumer products (such as hairspray, aerosol paints, and barbecue lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions. CARB also has primary responsibility for the development of California's State Implementation Plan (SIP), for which it works closely with the federal government and the local air districts.

The SIP is a living document that is periodically modified to reflect the latest emissions inventories, plans, and rules and regulations of air basins as reported by the agencies with jurisdiction over them. The CAA Amendments dictate that states containing areas violating the NAAQS revise their SIPs to include extra control measures to reduce air pollution. The SIP includes strategies and control measures to attain the NAAQS by deadlines established by the CAA. The USEPA has the responsibility to review all SIPs to determine if they conform to the requirements of the CAA.

State law makes CARB the lead agency for all purposes related to the SIP. Local air districts and other agencies prepare SIP elements and submit them to CARB for review and approval. CARB then forwards SIP revisions to the USEPA for approval and publication in the Federal Register. The plan is updated on a triennial basis and was last updated in 2018. It presents comprehensive strategies to reduce the O<sub>3</sub> precursor pollutants (ROG and NO<sub>x</sub>) from stationary, area, mobile, and indirect sources.

### **3.4.3 Local**

#### **Sacramento Metropolitan Air Quality Management District**

The SMAQMD is the regional agency responsible for air quality regulation within the SVAB. The SMAQMD regulates air quality through its planning and review activities and has permit authority over most types of stationary emission sources and can require operators of stationary sources to obtain permits, can impose emission limits, set fuel or material specifications, and establish operational limits to reduce air emissions. The SMAQMD regulates new or modified stationary sources of TACs.

For state air quality planning purposes, Sacramento County is classified as a severe nonattainment area for ozone. The "severe" classification triggers various plan submittal requirements and transportation performance standards. To demonstrate the district's ability to eventually meet the federal ozone standards, the SMAQMD, along with the other air districts in the nonattainment area, maintains the region's portion of the SIP for ozone. The Sacramento Air Basin's part of the SIP is a compilation of regulations that govern how the region and State will comply with the FCAA requirements to attain and



maintain the federal ozone standard. The compilation of rules that comprises the Sacramento Nonattainment Area's portion of the SIP is contained in the Sacramento Area Regional Ozone Attainment Plan. Before the certification of the 2007 RSP EIR, the latest update SIP was adopted by the SMAQMD on January 26, 2006. Since then, the SMAQMD has made numerous SIP revisions. The latest revisions made to the SIP include the Sacramento Regional 8-Hour Ozone Attainment and Reasonable Further Progress Plan (2013 SIP Revisions),<sup>17</sup> which addresses attainment of the federal 8-hour ozone standard, as well as the 2009 Triennial Report and Plan Revision,<sup>18</sup> which addresses attainment of the state ozone standard, are the latest plans issued by the SMAQMD.

These attainment plans depend heavily on the SMAQMD's permit authority, which is exercised through SMAQMD's rules and regulations. Concerning the construction phase of the Proposed Project, the applicable SMAQMD regulations would relate to construction and stationary equipment, particulate matter generation, architectural coatings, and paving materials. Equipment used during Proposed Project construction would be subject to the requirements of SMAQMD Regulation 2 (Permits), Rule 201 (General Permit Requirements); Regulation 4 (Prohibitory Rules), Rule 401 (Ringelmann Chart/Opacity), Rule 402 (Nuisance), Rule 403 (Fugitive Dust), Rule 404 (Particulate Matter), Rule 405 (Dust and Condensed Fumes), Rule 411 (Boiler NOx), Rule 420 (Sulfur Content of Fuels), Rule 442 (Architectural Coatings), and Rule 453 (Cutback and Emulsified Asphalt Paving Materials).

### 3.5 Results of Criteria Emissions Analyses

**Table 3** – Indicates unmitigated and mitigated criteria construction emissions and evaluates mitigated emissions against SMAQMD significance thresholds.

**Table 4** – Indicates unmitigated and mitigated criteria operational emissions and evaluates mitigated emissions against SMAQMD significance thresholds.

As shown in **Tables 3 and 4**, mass emissions of criteria pollutants from construction and operation are below applicable SMAQMD significance thresholds, (i.e., Less Than Significant (LTS)).

**PROJECTED IMPACT:** Less Than Significant

**RECOMMENDED MITIGATION:** None Required



**Table 3**  
**Construction Emissions Summary and Significance Evaluation**

| Criteria Pollutants | Unmitigated | Mitigated | Threshold       | Significance |
|---------------------|-------------|-----------|-----------------|--------------|
|                     | tons/yr     | tons/yr   | tons/yr         |              |
| NOx                 | 0.33        | 0.33      | 11.9            | LTS          |
| ROG                 | 0.05        | 0.05      | 11.9            | LTS          |
| PM 10               | 0.02        | 0.02      | 14.6            | LTS          |
| PM 2.5              | 0.02        | 0.02      | 15              | LTS          |
| GHG as CO2e         | 58.86       | 58.86     | 1,100 (MT/year) | LTS          |

*Source: CalEEMod version 2020.4.0, SMAQMD 2020*

**Table 4**  
**Operational Emissions Summary and Significance Evaluation**

| Criteria Pollutants | Unmitigated | Mitigated | Threshold  | Significance |
|---------------------|-------------|-----------|--|--------------|
|                     | tons/yr     | tons/yr   | tons/yr  |              |
| NOx                 | 0.51        | 0.51      | 11.9   | LTS          |
| ROG                 | 0.69        | 0.69      | 11.9   | LTS          |
| PM 10               | 0.46        | 0.46      | 14.6   | LTS          |
| PM 2.5              | 0.13        | 0.13      | 15   | LTS          |
| GHG as CO2e         | 450.39      | 450.39    | Demonstrate consistency with the Climate Change Scoping Plan by implementing applicable Best Management Practices or equivalent on-site or off-site mitigation | LTS          |

*Source: CalEEMod version 2020.4.0, SMAQMD 2020*



### **3.6 Greenhouse Gas Emissions from Construction and Operation**

Greenhouse gases – primarily carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), and nitrous (N<sub>2</sub>O) oxide, collectively reported as carbon dioxide equivalents (CO<sub>2</sub>e) – are directly emitted from stationary source combustion of natural gas in equipment such as water heaters, boilers, process heaters, and furnaces. GHGs are also emitted from mobile sources such as on-road vehicles and off-road construction equipment burning fuels such as gasoline, diesel, biodiesel, propane, or natural gas (compressed or liquefied). Indirect GHG emissions result from electric power generated elsewhere (i.e., power plants) used to operate process equipment, lighting, and utilities at a facility. Also, included in GHG quantification is electric power used to pump the water supply (e.g., aqueducts, wells, pipelines) and disposal and decomposition of municipal waste in landfills. (CARB 2017).

California's Building Energy Efficiency Standards are updated on an approximately three-year cycle. The 2019 standards improved upon the 2016 standards for new construction of, and additions and alterations to, residential, commercial, and industrial buildings. The 2019 standards went into effect on January 1, 2020 (CEC 2019).

Since the Title 24 standards require energy conservation features in new construction (e.g., high-efficiency lighting, high-efficiency heating, ventilating, and air-conditioning (HVAC) systems, thermal insulation, double-glazed windows, water-conserving plumbing fixtures, etc.), they indirectly regulate and reduce GHG emissions.

Using CalEEMod, directly on-site and off-site GHG emissions were estimated for construction and operation, and indirect off-site GHG emissions were estimated to account for electric power used by the proposed project, water conveyance, and solid waste disposal.

### **3.7 Results of Greenhouse Gas Emissions Analysis**

The SMAQMD does not have an adopted threshold of significance for construction-related GHG emissions; however, the air district recommends the quantification and disclosure of construction-generated GHG emissions. The SMAQMD project-level operational threshold of significance for GHG emissions is the project generation of 1,100 metric tons of CO<sub>2</sub>e per year during operations (bright-line numeric threshold); or the project generation of 4.6 metric tons of CO<sub>2</sub>e per service population (employees + residents) per year during operations (efficiency-based threshold); or compliance with a Qualified GHG Reduction Strategy. However, it is noted that this threshold is based, in part, on the GHG-reducing target established for the year 2020 under AB 32, but the Project would be implemented after the year 2020. Statewide goals for GHG reductions in the years beyond 2020 were codified into state law with the passage of SB 32, which as described previously mandates that California achieve a statewide GHG emission reduction of at least 40 percent below 1990 levels by no later than December 31, 2030. This equates to 40 percent below the statewide GHG reduction target for the year 2020.

Therefore, Project GHG emissions are quantified and compared to the thresholds issued by the California Air Pollution Control Officers Association (CAPCOA), which is an association of air pollution control officers from all 35 local air quality agencies throughout California, including the SMAQMD. CAPCOA recommends a significant threshold of 900 metric tons annually. This threshold is based on a capture rate of 90 percent



of land use development projects, which in turn translates into a 90 percent capture rate of all GHG emissions. The 900 metric ton threshold, the lowest promulgated in any region in the state, is considered by CAPCOA to be low enough to capture a substantial fraction of future projects that will be constructed to accommodate future (the year 2050) statewide population and economic growth while setting the emission threshold high enough to exclude small projects that will in aggregate contribute a relatively small fraction of the cumulative statewide GHG emissions.

Tables 5 and 6 indicate unmitigated and mitigated GHG emissions. To show compliance with SMAQMD’s use of BPS to show significance, the project would implement applicable and feasible reduction measures.

**Table 5  
Construction Greenhouse Gas Emissions Summary and Significance Evaluation**

| Greenhouse Gases | Unmitigated | Mitigated | Threshold | Significance |
|------------------|-------------|-----------|-----------|--------------|
|                  | MT/yr       | MT/yr     | MT/yr     |              |
| CO2              | 58.33       | 58.33     | N/A       | N/A          |
| CH4              | 0.018       | 0.018     | N/A       | N/A          |
| N2O              | 0.00032     | 0.00032   | N/A       | N/A          |
| CO2e             | 58.86       | 58.86     | 1,100     | LTS          |

Source: CalEEMod version 2020.4.0

**Table 6  
Operational Greenhouse Gas Emissions Summary and Significance Evaluation**

| Greenhouse Gases | Unmitigated | Mitigated | Threshold | Significance |
|------------------|-------------|-----------|-----------|--------------|
|                  | MT/yr       | MT/yr     | MT/yr     |              |
| CO2              | 435.44      | 435.44    | N/A       | N/A          |
| CH4              | 0.16        | 0.16      | N/A       | N/A          |
| N2O              | 0.04        | 0.04      | N/A       | N/A          |
| CO2e             | 450.39      | 450.39    | BMPs      | LTS          |

Source: CalEEMod version 2020.4.0

**PROJECTED IMPACT:** Less Than Significant

**RECOMMENDED MITIGATION:** None Required

## 4. Limitations

The scope of services performed to complete this assessment is limited in nature. Site conditions can vary with time; therefore, this assessment is not intended to predict future site conditions. Because of the nature of this assessment, site history has been developed based solely upon information provided by the Client or during the review of available regulatory files on this, and nearby sites. This report is not a complete risk assessment, and the scope of services does not include a complete determination of the



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1322 E. Shaw Avenue, Suite 400 Fresno, CA, 93710  
[www.soarhere.com](http://www.soarhere.com) • 559.547.8884

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extent of, nor the environmental or public health impact of, known or suspected hazardous materials or wastes.

The information and conclusions contained in this report are based upon work performed by trained professional and technical staff by generally accepted engineering and scientific practices at the time the work was performed. The conclusions and recommendations presented herein represent the best judgment of Soar Environmental staff and are based upon the information obtained from field reconnaissance and data review. Due to the nature of this investigation, Soar Environmental cannot warrant undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be construed as legal advice.

Should additional information become available that differs significantly from our understanding of conditions presented in this report, we request that this information be brought to our attention so that we may reassess the conclusions provided herein.



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## 5. References

### Air Quality and GHG References

SMAQMD (Sacramento Metropolitan Air Quality Management District). 2020. Sacramento Metropolitan Air Quality Management District CEQA Guide.

California Air Resources Board (CARB). 2017. California's 2017 Climate Change Scoping Plan. Website (<https://ww3.arb.ca.gov/cc/scopingplan/scopingplan.htm>) accessed August 26, 2021.

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[www.soarhere.com](http://www.soarhere.com) • 559.547.8884

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**Appendix A**  
**CalEEMod Outputs**





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Prasad Gas Station - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Prasad Gas Station  
Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses                    | Size | Metric   | Lot Acreage | Floor Surface Area | Population |
|------------------------------|------|----------|-------------|--------------------|------------|
| Convenience Market (24 hour) | 2.00 | 1000sqft | 0.05        | 2,000.00           | 0          |
| Parking Lot                  | 0.23 | Acre     | 0.23        | 10,018.80          | 0          |
| Gasoline/Service Station     | 4.00 | Pump     | 0.01        | 564.70             | 0          |

**1.2 Other Project Characteristics**

|                                |                                       |                                |       |                                  |       |
|--------------------------------|---------------------------------------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban                                 | <b>Wind Speed (m/s)</b>        | 3.5   | <b>Precipitation Freq (Days)</b> | 58    |
| <b>Climate Zone</b>            | 6                                     |                                |       | <b>Operational Year</b>          | 2026  |
| <b>Utility Company</b>         | Sacramento Municipal Utility District |                                |       |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 357.98                                | <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 -

| Table Name | Column Name | Default Value | New Value |
|------------|-------------|---------------|-----------|
|------------|-------------|---------------|-----------|

**2.0 Emissions Summary**



Prasad Gas Station - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1       | 1-1-2024   | 3-31-2024 | 0.2201                                       | 0.2201                                     |
| 2       | 4-1-2024   | 6-30-2024 | 0.1560                                       | 0.1560                                     |
|         |            | Highest   | 0.2201                                       | 0.2201                                     |

**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         | 0.0120        | 0.0000        | 8.0000e-005   | 0.0000             |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        | 0.0000        | 1.5000e-004     | 1.5000e-004     | 0.0000        | 0.0000        | 1.6000e-004     |
| Energy       | 1.7000e-004   | 1.5100e-003   | 1.2700e-003   | 1.0000e-005        |               | 1.1000e-004        | 1.1000e-004   |                | 1.1000e-004        | 1.1000e-004   | 0.0000        | 7.2171          | 7.2171          | 5.5000e-004   | 9.0000e-005   | 7.2582          |
| Mobile       | 0.6784        | 0.5082        | 3.7311        | 4.6000e-003        | 0.4536        | 4.5000e-003        | 0.4581        | 0.1213         | 4.1900e-003        | 0.1254        | 0.0000        | 426.2593        | 426.2593        | 0.0615        | 0.0365        | 438.6604        |
| Waste        |               |               |               |                    |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        | 1.6584        | 0.0000          | 1.6584          | 0.0980        | 0.0000        | 4.1087          |
| Water        |               |               |               |                    |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        | 0.0712        | 0.2330          | 0.3042          | 2.7000e-004   | 1.6000e-004   | 0.3578          |
| <b>Total</b> | <b>0.6906</b> | <b>0.5097</b> | <b>3.7324</b> | <b>4.6100e-003</b> | <b>0.4536</b> | <b>4.6100e-003</b> | <b>0.4582</b> | <b>0.1213</b>  | <b>4.3000e-003</b> | <b>0.1256</b> | <b>1.7297</b> | <b>433.7095</b> | <b>435.4391</b> | <b>0.1603</b> | <b>0.0367</b> | <b>450.3853</b> |

Prasad Gas Station - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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         | 0.0120        | 0.0000        | 8.0000e-005   | 0.0000             |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        | 0.0000        | 1.5000e-004     | 1.5000e-004     | 0.0000        | 0.0000        | 1.6000e-004     |
| Energy       | 1.7000e-004   | 1.5100e-003   | 1.2700e-003   | 1.0000e-005        |               | 1.1000e-004        | 1.1000e-004   |                | 1.1000e-004        | 1.1000e-004   | 0.0000        | 7.2171          | 7.2171          | 5.5000e-004   | 9.0000e-005   | 7.2582          |
| Mobile       | 0.6784        | 0.5082        | 3.7311        | 4.6000e-003        | 0.4536        | 4.5000e-003        | 0.4581        | 0.1213         | 4.1900e-003        | 0.1254        | 0.0000        | 426.2593        | 426.2593        | 0.0615        | 0.0365        | 438.6604        |
| Waste        |               |               |               |                    |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        | 1.6584        | 0.0000          | 1.6584          | 0.0980        | 0.0000        | 4.1087          |
| Water        |               |               |               |                    |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        | 0.0712        | 0.2330          | 0.3042          | 2.7000e-004   | 1.6000e-004   | 0.3578          |
| <b>Total</b> | <b>0.6906</b> | <b>0.5097</b> | <b>3.7324</b> | <b>4.6100e-003</b> | <b>0.4536</b> | <b>4.6100e-003</b> | <b>0.4582</b> | <b>0.1213</b>  | <b>4.3000e-003</b> | <b>0.1256</b> | <b>1.7297</b> | <b>433.7095</b> | <b>435.4391</b> | <b>0.1603</b> | <b>0.0367</b> | <b>450.3853</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      | 1/1/2024   | 1/1/2024  | 5             | 1        |                   |
| 2            | Grading               | Grading               | 1/2/2024   | 1/3/2024  | 5             | 2        |                   |
| 3            | Building Construction | Building Construction | 1/4/2024   | 5/22/2024 | 5             | 100      |                   |

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|   |                       |                       |           |           |   |   |
|---|-----------------------|-----------------------|-----------|-----------|---|---|
| 4 | Paving                | Paving                | 5/23/2024 | 5/29/2024 | 5 | 5 |
| 5 | Architectural Coating | Architectural Coating | 5/30/2024 | 6/5/2024  | 5 | 5 |

**Acres of Grading (Site Preparation Phase): 0.5**

**Acres of Grading (Grading Phase): 1.5**

**Acres of Paving: 0.23**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,847; Non-Residential Outdoor: 1,282; Striped Parking Area: 601 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |
| Paving                | Cement and Mortar Mixers  | 4      | 6.00        | 9           | 0.56        |
| Building Construction | Cranes                    | 1      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 2      | 6.00        | 89          | 0.20        |
| Grading               | Graders                   | 1      | 6.00        | 187         | 0.41        |
| Site Preparation      | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Paving                | Pavers                    | 1      | 7.00        | 130         | 0.42        |
| Paving                | Rollers                   | 1      | 7.00        | 80          | 0.38        |
| Grading               | Rubber Tired Dozers       | 1      | 6.00        | 247         | 0.40        |
| Building Construction | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Grading               | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |

**Trips and VMT**

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| 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      | 2                       | 5.00               | 0.00               | 0.00                | 10.00              | 6.50               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 3                       | 8.00               | 0.00               | 0.00                | 10.00              | 6.50               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 5                       | 5.00               | 2.00               | 0.00                | 10.00              | 6.50               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 7                       | 18.00              | 0.00               | 0.00                | 10.00              | 6.50               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 1.00               | 0.00               | 0.00                | 10.00              | 6.50               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

**3.2 Site Preparation - 2024**

**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 |                    |                    |                    |               | 2.7000e-004        | 0.0000             | 2.7000e-004        | 3.0000e-005        | 0.0000             | 3.0000e-005        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 2.5000e-004        | 2.8000e-003        | 1.9500e-003        | 0.0000        |                    | 1.0000e-004        | 1.0000e-004        |                    | 9.0000e-005        | 9.0000e-005        | 0.0000        | 0.4274        | 0.4274        | 1.4000e-004        | 0.0000        | 0.4309        |
| <b>Total</b>  | <b>2.5000e-004</b> | <b>2.8000e-003</b> | <b>1.9500e-003</b> | <b>0.0000</b> | <b>2.7000e-004</b> | <b>1.0000e-004</b> | <b>3.7000e-004</b> | <b>3.0000e-005</b> | <b>9.0000e-005</b> | <b>1.2000e-004</b> | <b>0.0000</b> | <b>0.4274</b> | <b>0.4274</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>0.4309</b> |

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Site Preparation - 2024**

**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       | 1.0000e-005        | 0.0000        | 5.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0141        | 0.0141        | 0.0000        | 0.0000        | 0.0142        |
| <b>Total</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0141</b> | <b>0.0141</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0142</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 |                    |                    |                    |               | 2.7000e-004        | 0.0000             | 2.7000e-004        | 3.0000e-005        | 0.0000             | 3.0000e-005        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 2.5000e-004        | 2.8000e-003        | 1.9500e-003        | 0.0000        |                    | 1.0000e-004        | 1.0000e-004        |                    | 9.0000e-005        | 9.0000e-005        | 0.0000        | 0.4274        | 0.4274        | 1.4000e-004        | 0.0000        | 0.4309        |
| <b>Total</b>  | <b>2.5000e-004</b> | <b>2.8000e-003</b> | <b>1.9500e-003</b> | <b>0.0000</b> | <b>2.7000e-004</b> | <b>1.0000e-004</b> | <b>3.7000e-004</b> | <b>3.0000e-005</b> | <b>9.0000e-005</b> | <b>1.2000e-004</b> | <b>0.0000</b> | <b>0.4274</b> | <b>0.4274</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>0.4309</b> |

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Site Preparation - 2024**

**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       | 1.0000e-005        | 0.0000        | 5.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0141        | 0.0141        | 0.0000        | 0.0000        | 0.0142        |
| <b>Total</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0141</b> | <b>0.0141</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0142</b> |

**3.3 Grading - 2024**

**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 |                    |                    |                    |                    | 5.3100e-003        | 0.0000             | 5.3100e-003        | 2.5700e-003        | 0.0000             | 2.5700e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 9.1000e-004        | 9.7300e-003        | 5.5500e-003        | 1.0000e-005        |                    | 4.0000e-004        | 4.0000e-004        |                    | 3.7000e-004        | 3.7000e-004        | 0.0000        | 1.2380        | 1.2380        | 4.0000e-004        | 0.0000        | 1.2480        |
| <b>Total</b>  | <b>9.1000e-004</b> | <b>9.7300e-003</b> | <b>5.5500e-003</b> | <b>1.0000e-005</b> | <b>5.3100e-003</b> | <b>4.0000e-004</b> | <b>5.7100e-003</b> | <b>2.5700e-003</b> | <b>3.7000e-004</b> | <b>2.9400e-003</b> | <b>0.0000</b> | <b>1.2380</b> | <b>1.2380</b> | <b>4.0000e-004</b> | <b>0.0000</b> | <b>1.2480</b> |

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Grading - 2024**

**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       | 2.0000e-005        | 1.0000e-005        | 1.7000e-004        | 0.0000        | 6.0000e-005        | 0.0000        | 6.0000e-005        | 2.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000        | 0.0450        | 0.0450        | 0.0000        | 0.0000        | 0.0454        |
| <b>Total</b> | <b>2.0000e-005</b> | <b>1.0000e-005</b> | <b>1.7000e-004</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.0450</b> | <b>0.0450</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0454</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 |                    |                    |                    |                    | 5.3100e-003        | 0.0000             | 5.3100e-003        | 2.5700e-003        | 0.0000             | 2.5700e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 9.1000e-004        | 9.7300e-003        | 5.5500e-003        | 1.0000e-005        |                    | 4.0000e-004        | 4.0000e-004        |                    | 3.7000e-004        | 3.7000e-004        | 0.0000        | 1.2380        | 1.2380        | 4.0000e-004        | 0.0000        | 1.2480        |
| <b>Total</b>  | <b>9.1000e-004</b> | <b>9.7300e-003</b> | <b>5.5500e-003</b> | <b>1.0000e-005</b> | <b>5.3100e-003</b> | <b>4.0000e-004</b> | <b>5.7100e-003</b> | <b>2.5700e-003</b> | <b>3.7000e-004</b> | <b>2.9400e-003</b> | <b>0.0000</b> | <b>1.2380</b> | <b>1.2380</b> | <b>4.0000e-004</b> | <b>0.0000</b> | <b>1.2480</b> |

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**3.3 Grading - 2024**

**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       | 2.0000e-005        | 1.0000e-005        | 1.7000e-004        | 0.0000        | 6.0000e-005        | 0.0000        | 6.0000e-005        | 2.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000        | 0.0450        | 0.0450        | 0.0000        | 0.0000        | 0.0454        |
| <b>Total</b> | <b>2.0000e-005</b> | <b>1.0000e-005</b> | <b>1.7000e-004</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.0450</b> | <b>0.0450</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0454</b> |

**3.4 Building Construction - 2024**

**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     | 0.0298        | 0.2987        | 0.3534        | 5.7000e-004        |               | 0.0141        | 0.0141        |                | 0.0130        | 0.0130        | 0.0000        | 50.1212        | 50.1212        | 0.0162        | 0.0000        | 50.5265        |
| <b>Total</b> | <b>0.0298</b> | <b>0.2987</b> | <b>0.3534</b> | <b>5.7000e-004</b> |               | <b>0.0141</b> | <b>0.0141</b> |                | <b>0.0130</b> | <b>0.0130</b> | <b>0.0000</b> | <b>50.1212</b> | <b>50.1212</b> | <b>0.0162</b> | <b>0.0000</b> | <b>50.5265</b> |

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Building Construction - 2024**

**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       | 1.2000e-004        | 4.7800e-003        | 1.4200e-003        | 2.0000e-005        | 5.9000e-004        | 3.0000e-005        | 6.1000e-004        | 1.7000e-004        | 2.0000e-005        | 1.9000e-004        | 0.0000        | 1.8195        | 1.8195        | 4.0000e-005        | 2.7000e-004        | 1.9003        |
| Worker       | 6.7000e-004        | 3.9000e-004        | 5.4000e-003        | 2.0000e-005        | 1.8400e-003        | 1.0000e-005        | 1.8500e-003        | 4.9000e-004        | 1.0000e-005        | 5.0000e-004        | 0.0000        | 1.4072        | 1.4072        | 4.0000e-005        | 4.0000e-005        | 1.4199        |
| <b>Total</b> | <b>7.9000e-004</b> | <b>5.1700e-003</b> | <b>6.8200e-003</b> | <b>4.0000e-005</b> | <b>2.4300e-003</b> | <b>4.0000e-005</b> | <b>2.4600e-003</b> | <b>6.6000e-004</b> | <b>3.0000e-005</b> | <b>6.9000e-004</b> | <b>0.0000</b> | <b>3.2267</b> | <b>3.2267</b> | <b>8.0000e-005</b> | <b>3.1000e-004</b> | <b>3.3203</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     | 0.0298        | 0.2987        | 0.3534        | 5.7000e-004        |               | 0.0141        | 0.0141        |                | 0.0130        | 0.0130        | 0.0000        | 50.1211        | 50.1211        | 0.0162        | 0.0000        | 50.5264        |
| <b>Total</b> | <b>0.0298</b> | <b>0.2987</b> | <b>0.3534</b> | <b>5.7000e-004</b> |               | <b>0.0141</b> | <b>0.0141</b> |                | <b>0.0130</b> | <b>0.0130</b> | <b>0.0000</b> | <b>50.1211</b> | <b>50.1211</b> | <b>0.0162</b> | <b>0.0000</b> | <b>50.5264</b> |

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Building Construction - 2024**

**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       | 1.2000e-004        | 4.7800e-003        | 1.4200e-003        | 2.0000e-005        | 5.9000e-004        | 3.0000e-005        | 6.1000e-004        | 1.7000e-004        | 2.0000e-005        | 1.9000e-004        | 0.0000        | 1.8195        | 1.8195        | 4.0000e-005        | 2.7000e-004        | 1.9003        |
| Worker       | 6.7000e-004        | 3.9000e-004        | 5.4000e-003        | 2.0000e-005        | 1.8400e-003        | 1.0000e-005        | 1.8500e-003        | 4.9000e-004        | 1.0000e-005        | 5.0000e-004        | 0.0000        | 1.4072        | 1.4072        | 4.0000e-005        | 4.0000e-005        | 1.4199        |
| <b>Total</b> | <b>7.9000e-004</b> | <b>5.1700e-003</b> | <b>6.8200e-003</b> | <b>4.0000e-005</b> | <b>2.4300e-003</b> | <b>4.0000e-005</b> | <b>2.4600e-003</b> | <b>6.6000e-004</b> | <b>3.0000e-005</b> | <b>6.9000e-004</b> | <b>0.0000</b> | <b>3.2267</b> | <b>3.2267</b> | <b>8.0000e-005</b> | <b>3.1000e-004</b> | <b>3.3203</b> |

**3.5 Paving - 2024**

**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     | 1.4800e-003        | 0.0131        | 0.0176        | 3.0000e-005        |               | 6.1000e-004        | 6.1000e-004        |                | 5.7000e-004        | 5.7000e-004        | 0.0000        | 2.3502        | 2.3502        | 6.8000e-004        | 0.0000        | 2.3673        |
| Paving       | 3.0000e-004        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| <b>Total</b> | <b>1.7800e-003</b> | <b>0.0131</b> | <b>0.0176</b> | <b>3.0000e-005</b> |               | <b>6.1000e-004</b> | <b>6.1000e-004</b> |                | <b>5.7000e-004</b> | <b>5.7000e-004</b> | <b>0.0000</b> | <b>2.3502</b> | <b>2.3502</b> | <b>6.8000e-004</b> | <b>0.0000</b> | <b>2.3673</b> |

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 2024**

**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        | 7.0000e-005        | 9.7000e-004        | 0.0000        | 3.3000e-004        | 0.0000        | 3.3000e-004        | 9.0000e-005        | 0.0000        | 9.0000e-005        | 0.0000        | 0.2533        | 0.2533        | 1.0000e-005        | 1.0000e-005        | 0.2556        |
| <b>Total</b> | <b>1.2000e-004</b> | <b>7.0000e-005</b> | <b>9.7000e-004</b> | <b>0.0000</b> | <b>3.3000e-004</b> | <b>0.0000</b> | <b>3.3000e-004</b> | <b>9.0000e-005</b> | <b>0.0000</b> | <b>9.0000e-005</b> | <b>0.0000</b> | <b>0.2533</b> | <b>0.2533</b> | <b>1.0000e-005</b> | <b>1.0000e-005</b> | <b>0.2556</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     | 1.4800e-003        | 0.0131        | 0.0176        | 3.0000e-005        |               | 6.1000e-004        | 6.1000e-004        |                | 5.7000e-004        | 5.7000e-004        | 0.0000        | 2.3502        | 2.3502        | 6.8000e-004        | 0.0000        | 2.3673        |
| Paving       | 3.0000e-004        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| <b>Total</b> | <b>1.7800e-003</b> | <b>0.0131</b> | <b>0.0176</b> | <b>3.0000e-005</b> |               | <b>6.1000e-004</b> | <b>6.1000e-004</b> |                | <b>5.7000e-004</b> | <b>5.7000e-004</b> | <b>0.0000</b> | <b>2.3502</b> | <b>2.3502</b> | <b>6.8000e-004</b> | <b>0.0000</b> | <b>2.3673</b> |

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 2024**

**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        | 7.0000e-005        | 9.7000e-004        | 0.0000        | 3.3000e-004        | 0.0000        | 3.3000e-004        | 9.0000e-005        | 0.0000        | 9.0000e-005        | 0.0000        | 0.2533        | 0.2533        | 1.0000e-005        | 1.0000e-005        | 0.2556        |
| <b>Total</b> | <b>1.2000e-004</b> | <b>7.0000e-005</b> | <b>9.7000e-004</b> | <b>0.0000</b> | <b>3.3000e-004</b> | <b>0.0000</b> | <b>3.3000e-004</b> | <b>9.0000e-005</b> | <b>0.0000</b> | <b>9.0000e-005</b> | <b>0.0000</b> | <b>0.2533</b> | <b>0.2533</b> | <b>1.0000e-005</b> | <b>1.0000e-005</b> | <b>0.2556</b> |

**3.6 Architectural Coating - 2024**

**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 | 0.0133        |                    |                    |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 4.5000e-004   | 3.0500e-003        | 4.5300e-003        | 1.0000e-005        |               | 1.5000e-004        | 1.5000e-004        |                | 1.5000e-004        | 1.5000e-004        | 0.0000        | 0.6383        | 0.6383        | 4.0000e-005        | 0.0000        | 0.6392        |
| <b>Total</b>    | <b>0.0137</b> | <b>3.0500e-003</b> | <b>4.5300e-003</b> | <b>1.0000e-005</b> |               | <b>1.5000e-004</b> | <b>1.5000e-004</b> |                | <b>1.5000e-004</b> | <b>1.5000e-004</b> | <b>0.0000</b> | <b>0.6383</b> | <b>0.6383</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>0.6392</b> |

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Architectural Coating - 2024**

**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       | 1.0000e-005        | 0.0000        | 5.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0141        | 0.0141        | 0.0000        | 0.0000        | 0.0142        |
| <b>Total</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0141</b> | <b>0.0141</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0142</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 | 0.0133        |                    |                    |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 4.5000e-004   | 3.0500e-003        | 4.5300e-003        | 1.0000e-005        |               | 1.5000e-004        | 1.5000e-004        |                | 1.5000e-004        | 1.5000e-004        | 0.0000        | 0.6383        | 0.6383        | 4.0000e-005        | 0.0000        | 0.6392        |
| <b>Total</b>    | <b>0.0137</b> | <b>3.0500e-003</b> | <b>4.5300e-003</b> | <b>1.0000e-005</b> |               | <b>1.5000e-004</b> | <b>1.5000e-004</b> |                | <b>1.5000e-004</b> | <b>1.5000e-004</b> | <b>0.0000</b> | <b>0.6383</b> | <b>0.6383</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>0.6392</b> |

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Architectural Coating - 2024**

**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       | 1.0000e-005        | 0.0000        | 5.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0141        | 0.0141        | 0.0000        | 0.0000        | 0.0142        |
| <b>Total</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0141</b> | <b>0.0141</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0142</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 Not 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   | 0.6784  | 0.5082 | 3.7311 | 4.6000e-003 | 0.4536        | 4.5000e-003  | 0.4581     | 0.1213         | 4.1900e-003   | 0.1254      | 0.0000   | 426.2593  | 426.2593  | 0.0615 | 0.0365 | 438.6604 |
| Unmitigated | 0.6784  | 0.5082 | 3.7311 | 4.6000e-003 | 0.4536        | 4.5000e-003  | 0.4581     | 0.1213         | 4.1900e-003   | 0.1254      | 0.0000   | 426.2593  | 426.2593  | 0.0615 | 0.0365 | 438.6604 |

**4.2 Trip Summary Information**

| Land Use                     | Average Daily Trip Rate |                 |                 | Unmitigated      | Mitigated        |
|------------------------------|-------------------------|-----------------|-----------------|------------------|------------------|
|                              | Weekday                 | Saturday        | Sunday          | Annual VMT       | Annual VMT       |
| Convenience Market (24 hour) | 1,524.56                | 2,168.34        | 1802.34         | 928,451          | 928,451          |
| Parking Lot                  | 0.00                    | 0.00            | 0.00            |                  |                  |
| Gasoline/Service Station     | 688.04                  | 728.68          | 667.52          | 295,853          | 295,853          |
| <b>Total</b>                 | <b>2,212.60</b>         | <b>2,897.02</b> | <b>2,469.86</b> | <b>1,224,304</b> | <b>1,224,304</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 |
| Convenience Market (24 hour) | 10.00      | 5.00       | 6.50        | 0.90       | 80.10      | 19.00       | 24             | 15       | 61      |
| Parking Lot                  | 10.00      | 5.00       | 6.50        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Gasoline/Service Station     | 10.00      | 5.00       | 6.50        | 2.00       | 79.00      | 19.00       | 14             | 27       | 59      |

**4.4 Fleet Mix**

| Land Use                     | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Convenience Market (24 hour) | 0.550065 | 0.056538 | 0.183073 | 0.126916 | 0.023794 | 0.005777 | 0.013314 | 0.009484 | 0.000878 | 0.000597 | 0.025554 | 0.000937 | 0.003071 |

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|                          |          |          |          |          |          |          |          |          |          |          |          |          |          |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Parking Lot              | 0.550065 | 0.056538 | 0.183073 | 0.126916 | 0.023794 | 0.005777 | 0.013314 | 0.009484 | 0.000878 | 0.000597 | 0.025554 | 0.000937 | 0.003071 |
| Gasoline/Service Station | 0.550065 | 0.056538 | 0.183073 | 0.126916 | 0.023794 | 0.005777 | 0.013314 | 0.009484 | 0.000878 | 0.000597 | 0.025554 | 0.000937 | 0.003071 |

**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   | 5.5720    | 5.5720    | 5.1000e-004 | 6.0000e-005 | 5.6034 |
| Electricity Unmitigated |             |             |             |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 5.5720    | 5.5720    | 5.1000e-004 | 6.0000e-005 | 5.6034 |
| NaturalGas Mitigated    | 1.7000e-004 | 1.5100e-003 | 1.2700e-003 | 1.0000e-005 |               | 1.1000e-004  | 1.1000e-004 |                | 1.1000e-004   | 1.1000e-004 | 0.0000   | 1.6450    | 1.6450    | 3.0000e-005 | 3.0000e-005 | 1.6548 |
| NaturalGas Unmitigated  | 1.7000e-004 | 1.5100e-003 | 1.2700e-003 | 1.0000e-005 |               | 1.1000e-004  | 1.1000e-004 |                | 1.1000e-004   | 1.1000e-004 | 0.0000   | 1.6450    | 1.6450    | 3.0000e-005 | 3.0000e-005 | 1.6548 |

Prasad Gas Station - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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         |               |               |                    |                    |               |
| Convenience Market (24 hour) | 10740          | 6.0000e-005        | 5.3000e-004        | 4.4000e-004        | 0.0000             |               | 4.0000e-005        | 4.0000e-005        |                | 4.0000e-005        | 4.0000e-005        | 0.0000        | 0.5731        | 0.5731        | 1.0000e-005        | 1.0000e-005        | 0.5765        |
| Gasoline/Service Station     | 20086.4        | 1.1000e-004        | 9.8000e-004        | 8.3000e-004        | 1.0000e-005        |               | 7.0000e-005        | 7.0000e-005        |                | 7.0000e-005        | 7.0000e-005        | 0.0000        | 1.0719        | 1.0719        | 2.0000e-005        | 2.0000e-005        | 1.0783        |
| 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        |
| <b>Total</b>                 |                | <b>1.7000e-004</b> | <b>1.5100e-003</b> | <b>1.2700e-003</b> | <b>1.0000e-005</b> |               | <b>1.1000e-004</b> | <b>1.1000e-004</b> |                | <b>1.1000e-004</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>1.6450</b> | <b>1.6450</b> | <b>3.0000e-005</b> | <b>3.0000e-005</b> | <b>1.6548</b> |

Prasad Gas Station - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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         |               |               |                    |                    |               |
| Convenience Market (24 hour) | 10740          | 6.0000e-005        | 5.3000e-004        | 4.4000e-004        | 0.0000             |               | 4.0000e-005        | 4.0000e-005        |                | 4.0000e-005        | 4.0000e-005        | 0.0000        | 0.5731        | 0.5731        | 1.0000e-005        | 1.0000e-005        | 0.5765        |
| Gasoline/Service Station     | 20086.4        | 1.1000e-004        | 9.8000e-004        | 8.3000e-004        | 1.0000e-005        |               | 7.0000e-005        | 7.0000e-005        |                | 7.0000e-005        | 7.0000e-005        | 0.0000        | 1.0719        | 1.0719        | 2.0000e-005        | 2.0000e-005        | 1.0783        |
| 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        |
| <b>Total</b>                 |                | <b>1.7000e-004</b> | <b>1.5100e-003</b> | <b>1.2700e-003</b> | <b>1.0000e-005</b> |               | <b>1.1000e-004</b> | <b>1.1000e-004</b> |                | <b>1.1000e-004</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>1.6450</b> | <b>1.6450</b> | <b>3.0000e-005</b> | <b>3.0000e-005</b> | <b>1.6548</b> |

Prasad Gas Station - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|                              | Electricity Use | Total CO2     | CH4                | N2O                | CO2e          |
|------------------------------|-----------------|---------------|--------------------|--------------------|---------------|
| Land Use                     | kWh/yr          | MT/yr         |                    |                    |               |
| Convenience Market (24 hour) | 22440           | 3.6437        | 3.4000e-004        | 4.0000e-005        | 3.6643        |
| Gasoline/Service Station     | 8368.85         | 1.3589        | 1.3000e-004        | 2.0000e-005        | 1.3666        |
| Parking Lot                  | 3506.58         | 0.5694        | 5.0000e-005        | 1.0000e-005        | 0.5726        |
| <b>Total</b>                 |                 | <b>5.5720</b> | <b>5.2000e-004</b> | <b>7.0000e-005</b> | <b>5.6034</b> |

Prasad Gas Station - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Mitigated**

|                              | Electricity Use | Total CO2     | CH4                | N2O                | CO2e          |
|------------------------------|-----------------|---------------|--------------------|--------------------|---------------|
| Land Use                     | kWh/yr          | MT/yr         |                    |                    |               |
| Convenience Market (24 hour) | 22440           | 3.6437        | 3.4000e-004        | 4.0000e-005        | 3.6643        |
| Gasoline/Service Station     | 8368.85         | 1.3589        | 1.3000e-004        | 2.0000e-005        | 1.3666        |
| Parking Lot                  | 3506.58         | 0.5694        | 5.0000e-005        | 1.0000e-005        | 0.5726        |
| <b>Total</b>                 |                 | <b>5.5720</b> | <b>5.2000e-004</b> | <b>7.0000e-005</b> | <b>5.6034</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Prasad Gas Station - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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   | 0.0120  | 0.0000 | 8.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 1.5000e-004 | 1.5000e-004 | 0.0000 | 0.0000 | 1.6000e-004 |
| Unmitigated | 0.0120  | 0.0000 | 8.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 1.5000e-004 | 1.5000e-004 | 0.0000 | 0.0000 | 1.6000e-004 |

**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 | 1.3300e-003   |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 0.0107        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 1.0000e-005   | 0.0000        | 8.0000e-005        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 1.5000e-004        | 1.5000e-004        | 0.0000        | 0.0000        | 1.6000e-004        |
| <b>Total</b>          | <b>0.0120</b> | <b>0.0000</b> | <b>8.0000e-005</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.5000e-004</b> | <b>1.5000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.6000e-004</b> |

Prasad Gas Station - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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 | 1.3300e-003   |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 0.0107        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 1.0000e-005   | 0.0000        | 8.0000e-005        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 1.5000e-004        | 1.5000e-004        | 0.0000        | 0.0000        | 1.6000e-004        |
| <b>Total</b>          | <b>0.0120</b> | <b>0.0000</b> | <b>8.0000e-005</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.5000e-004</b> | <b>1.5000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.6000e-004</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Prasad Gas Station - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

|             | Total CO2 | CH4         | N2O         | CO2e   |
|-------------|-----------|-------------|-------------|--------|
| Category    | MT/yr     |             |             |        |
| Mitigated   | 0.3042    | 2.7000e-004 | 1.6000e-004 | 0.3578 |
| Unmitigated | 0.3042    | 2.7000e-004 | 1.6000e-004 | 0.3578 |

**7.2 Water by Land Use**

**Unmitigated**

|                              | Indoor/Outdoor Use    | Total CO2     | CH4                | N2O                | CO2e          |
|------------------------------|-----------------------|---------------|--------------------|--------------------|---------------|
| Land Use                     | Mgal                  | MT/yr         |                    |                    |               |
| Convenience Market (24 hour) | 0.148145 / 0.0907986  | 0.2239        | 2.0000e-004        | 1.2000e-004        | 0.2633        |
| Gasoline/Service Station     | 0.0531276 / 0.0325621 | 0.0803        | 7.0000e-005        | 4.0000e-005        | 0.0944        |
| Parking Lot                  | 0 / 0                 | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| <b>Total</b>                 |                       | <b>0.3042</b> | <b>2.7000e-004</b> | <b>1.6000e-004</b> | <b>0.3578</b> |

Prasad Gas Station - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

**Mitigated**

|                              | Indoor/Outdoor Use    | Total CO2     | CH4                | N2O                | CO2e          |
|------------------------------|-----------------------|---------------|--------------------|--------------------|---------------|
| Land Use                     | Mgal                  | MT/yr         |                    |                    |               |
| Convenience Market (24 hour) | 0.148145 / 0.0907986  | 0.2239        | 2.0000e-004        | 1.2000e-004        | 0.2633        |
| Gasoline/Service Station     | 0.0531276 / 0.0325621 | 0.0803        | 7.0000e-005        | 4.0000e-005        | 0.0944        |
| Parking Lot                  | 0 / 0                 | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| <b>Total</b>                 |                       | <b>0.3042</b> | <b>2.7000e-004</b> | <b>1.6000e-004</b> | <b>0.3578</b> |

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Prasad Gas Station - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Category/Year**

|             | Total CO2 | CH4    | N2O    | CO2e   |
|-------------|-----------|--------|--------|--------|
|             | MT/yr     |        |        |        |
| Mitigated   | 1.6584    | 0.0980 | 0.0000 | 4.1087 |
| Unmitigated | 1.6584    | 0.0980 | 0.0000 | 4.1087 |

**8.2 Waste by Land Use**

**Unmitigated**

|                              | Waste Disposed | Total CO2     | CH4           | N2O           | CO2e          |
|------------------------------|----------------|---------------|---------------|---------------|---------------|
| Land Use                     | tons           | MT/yr         |               |               |               |
| Convenience Market (24 hour) | 6.01           | 1.2200        | 0.0721        | 0.0000        | 3.0224        |
| Gasoline/Service Station     | 2.16           | 0.4385        | 0.0259        | 0.0000        | 1.0863        |
| Parking Lot                  | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>                 |                | <b>1.6584</b> | <b>0.0980</b> | <b>0.0000</b> | <b>4.1087</b> |

Prasad Gas Station - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

**Mitigated**

|                              | Waste Disposed | Total CO2     | CH4           | N2O           | CO2e          |
|------------------------------|----------------|---------------|---------------|---------------|---------------|
| Land Use                     | tons           | MT/yr         |               |               |               |
| Convenience Market (24 hour) | 6.01           | 1.2200        | 0.0721        | 0.0000        | 3.0224        |
| Gasoline/Service Station     | 2.16           | 0.4385        | 0.0259        | 0.0000        | 1.0863        |
| Parking Lot                  | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>                 |                | <b>1.6584</b> | <b>0.0980</b> | <b>0.0000</b> | <b>4.1087</b> |

**9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

Prasad Gas Station - Sacramento County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**11.0 Vegetation**

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## **Aquatic Resource Delineation Memo**

Prepared for:

Sarita Prasad  
3200 Rio Linda Boulevard  
Sacramento, CA 95815

Prepared by:

**Soar Environmental Consulting**  
**1322 Shaw Ave. STE 400**  
**Fresno, CA 93710**

Sarita Prasad is working with the City of Sacramento to rehabilitate a Fuel Stop Gas Station for an approximately 0.5-acre property located at 3200 Rio Linda Boulevard, Sacramento, CA 95815, APN 251-0292-016 (Attachment A). As part of the California Environmental Quality Act Initial Study, the City of Sacramento has tasked Soar Environmental Consulting, Inc. to provide an Aquatic Resource Delineation Memo to identify potential jurisdictional water features that the project may impact. Soar Environmental Consulting, Inc. collected preliminary data before the initial site visit, including a review of hydric soil maps, aerial imagery, and historical climatic conditions. On February 2, 2023, Soar Environmental Consulting, Inc. biologist Danielle Aparicio conducted a field visit to determine if any wetland habitat was present within or near the project site. The Aquatic Resource Delineation survey was conducted per the United States Army Corps of Engineers *1987 Corps of Engineers Wetlands Delineation Manual*, the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)*.

Arcade Creek is located approximately 150 feet from the project site. According to the National Wetlands Inventory (U.S. Fish and Wildlife Service, 2023), Arcade Creek has a Cowardin classification code of PEM1Cx and is mapped as a freshwater emergent wetland habitat. Arcade Creek connects to Steelhead Creek and are tributaries to the Sacramento River, a part of the Lower American Watershed. No wetlands were observed above the ordinary high-water mark of the channelized Arcade Creek, and the habitat above the high-water mark is classified as disturbed and annual grassland. All habitat within the project site is developed pavement or gravel.

### **Hydrophytic Vegetation**

Hydrophytic vegetation, also known as wetland plants, is present when the plant community is dominated by species that can tolerate prolonged inundation or substrate saturation during the growing period. Wetland plants are identified using the National Wetland Plant List (Lichvar, 2016) and applying the wetland indicator status from the list. Once each plant species is identified with its corresponding indicator status, the dominance test is applied. Hydrophytic vegetation is present if the calculation from the dominance test (indicator 1) is over 50 percent. However, suppose the dominance test fails and in the case of positive indicators for both wetland hydrology and hydric soils are present. In that case, the prevalence index (indicator 2) is applied, which takes more than just the dominant species but all plant species across all vegetation strata into consideration. In addition, plant morphological adaptations (indicator 3) can be used when both wetland hydrology and hydric soils are present.

Only one grass species, *Poa annua*, with the potential to occur in wetlands, was observed on the project site. However, the absolute percent cover relative to the entire project site was less than 3 percent for that species and not considered a dominant species. No other wetland plant species were observed within the project site. All species observed within the project site are listed in Table 1 below.

**Table 1 – List of All Plants Identified During the Field Survey within the Study Area**

| Scientific Name               | Common Name         | Arid West NWPL Indicator Status |
|-------------------------------|---------------------|---------------------------------|
| <i>Avena barbata</i>          | Slender wild oat    | UPL                             |
| <i>Centaurea solstitialis</i> | Yellow star-thistle | UPL                             |
| <i>Cichorium intybus</i>      | Common chicory      | FACU                            |
| <i>Cynodon dactylon</i>       | Bermuda grass       | FACU                            |
| <i>Erodium moschatum</i>      | Musky stork's bill  | UPL                             |
| <i>Poa annua</i>              | Annual bluegrass    | FAC                             |

Indicator Status Description:

OBL—Obligate wetland plants, occurrence in wetlands >99%

FACW—Facultative wetland plants, occurrence in wetlands 67-99%

FAC—Facultative plants, occurrence in wetlands 34-66%

FACU—Facultative upland plants, occurrence in wetlands 1-33%

UPL—Obligate upland plants, occurrence in wetlands <1%

## Wetland Hydrology

Wetland hydrology refers to the presence of water at or above the soil surface for a sufficient period of the year to significantly influence the plant types and soils that occur in the area. When surveys are conducted at a time of year when surface water, water table, or saturated soils cannot be observed, evidence of wetland hydrology is based on observation of the hydrologic indicators described in the wetland delineation manual. Evidence of wetland hydrology can include primary indicators such as surface soil cracks, nonriverine watermarks, and nonriverine drift deposits or secondary indicators such as drainage patterns or crayfish burrows. The occurrence of at least one primary indicator or two secondary indicators is required to confirm the presence of wetland hydrology.

No signs of hydrology were observed within the project site boundaries.

## Hydric Soils

Hydric soil is soil formed under saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions supporting hydrophytic vegetation's growth and regeneration. If the soil in an area is listed as hydric by the Natural Resources Conservation Service (NRCS), the area may have a wetland. Therefore, sample soil pits are dug in areas of interest with positive indicators of wetland hydrology and hydrophytic vegetation. Once a soil pit is dug, the Munsell Soil Color Book (2009) and Field Indicators of Hydric Soils in the United States v 8.2 are used to confirm the profile description of the hydric soil by depth.

The soil within the project site is labeled as a San Joaquin-Urban land complex with 0-3 percent slopes and does not have a hydric soil rating. The depth of the water table is more than 80 inches (United States Department of Agriculture Natural Resources Conservation Service, 2023, **Attachment C**). No soil pits were

required for this survey due to the mapped soil having a negative hydric soil rating and negative indicators for wetland hydrology and hydrophytic vegetation.

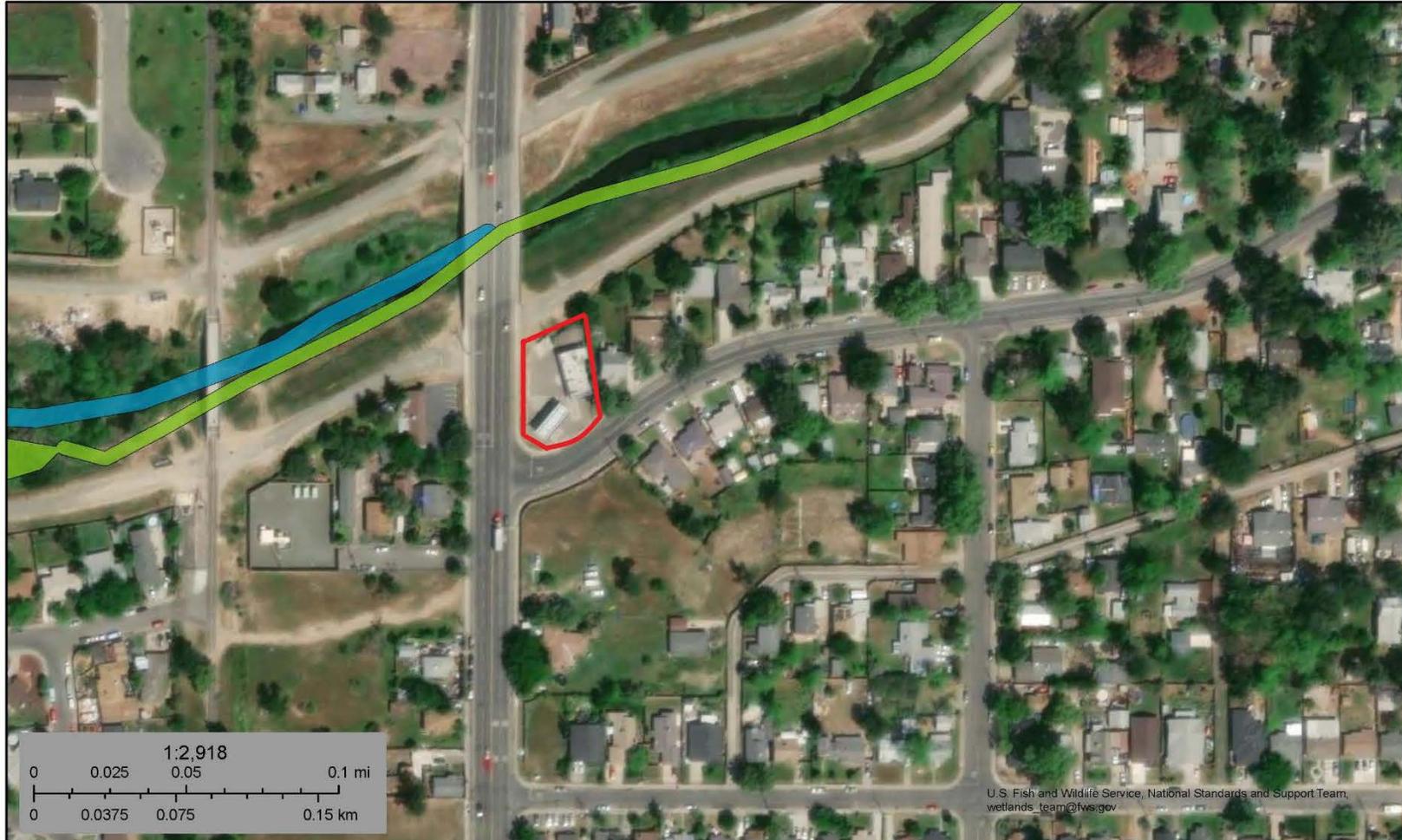
In conclusion, no signs for any of the three parameters were observed within the project boundary, determining there are no wetlands that the project will impact.

**Attachment A:**  
**Supporting Maps**



U.S. Fish and Wildlife Service  
National Wetlands Inventory

3200 Rio Linda Blvd, Sacramento, CA



February 1, 2023

**Wetlands**

- |                                |                                   |          |
|--------------------------------|-----------------------------------|----------|
| Estuarine and Marine Deepwater | Freshwater Emergent Wetland       | Lake     |
| Estuarine and Marine Wetland   | Freshwater Forested/Shrub Wetland | Other    |
|                                | Freshwater Pond                   | Riverine |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

**Attachment B:**  
**Site Photographs**

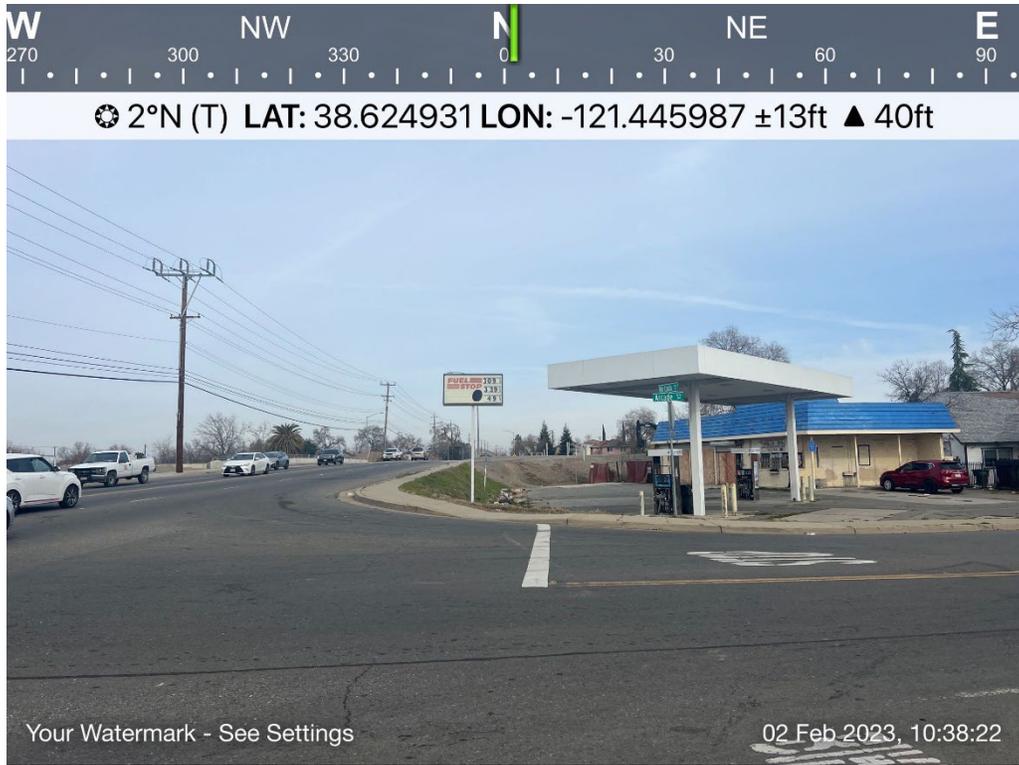


Photo 1: Project site from the southern end facing north



Photo 2: Project site facing adjacent private property



Photo 3: Project site from the northern end facing SE



Photo 4: Project site from NE corner facing south

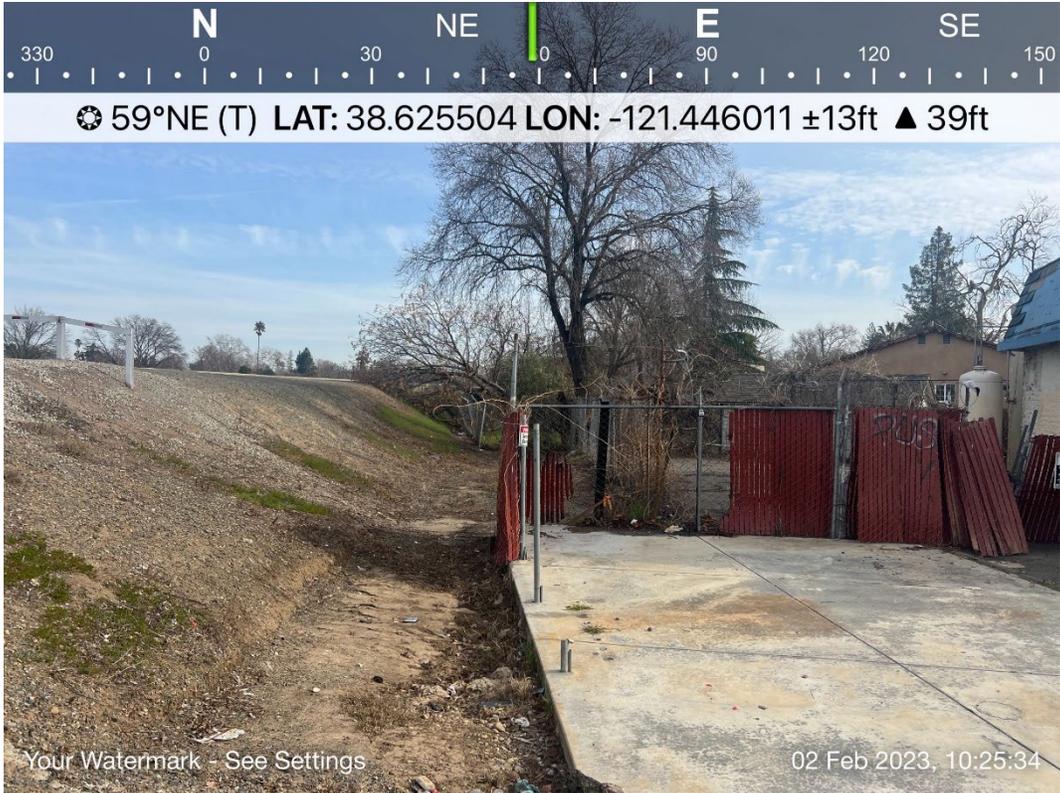


Photo 5: Project site from the northern end facing NE, Arcade Creek access road adjacent to the site



Photo 6: Disturbed and annual grassland above ordinary high water mark and access road



Photo 7: View of Arcade Creek with annual grassland and disturbed habitat above

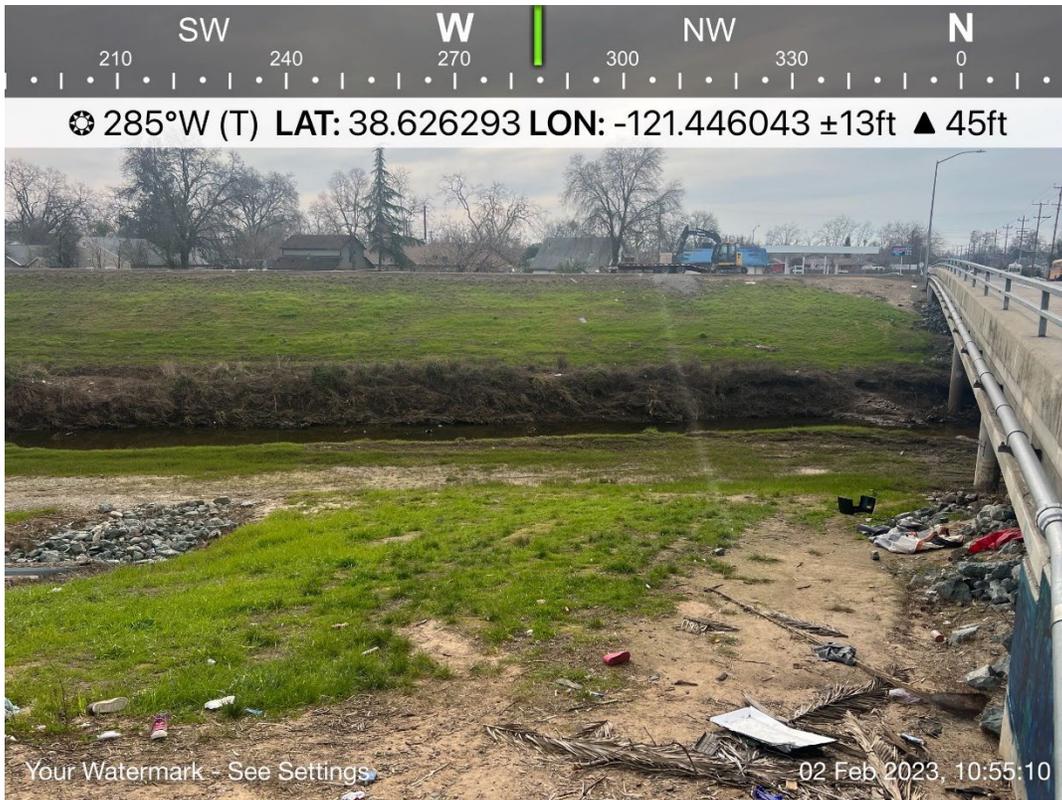


Photo 8: View of Arcade Creek from the most northern point, project site in the far background

**Attachment C:**  
**Soil Report**

# Custom Soil Resource Report for **Sacramento 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

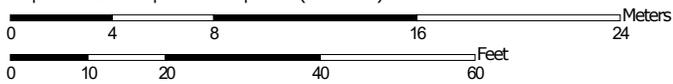
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The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce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

# Custom Soil Resource Report Soil Map



Map Scale: 1:296 if printed on A portrait (8.5" x 11") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N 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: Sacramento County, California  
 Survey Area Data: Version 22, Sep 1, 2022

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

Date(s) aerial images were photographed: Apr 23, 2022—Apr 24, 2022

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

| Map Unit Symbol                    | Map Unit Name   | Acres in AOI | Percent of AOI |
|------------------------------------|---|--------------|----------------|
| 220                                | San Joaquin-Urban land complex, 0 to 3 percent slopes | 0.3          | 100.0%         |
| <b>Totals for Area of Interest</b> |   | <b>0.3</b>   | <b>100.0%</b>  |

## Map Unit Descriptions

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.

## Sacramento County, California

### 220—San Joaquin-Urban land complex, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* hhq2  
*Elevation:* 20 to 500 feet  
*Mean annual precipitation:* 10 to 22 inches  
*Mean annual air temperature:* 61 to 63 degrees F  
*Frost-free period:* 250 to 300 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*San joaquin and similar soils:* 65 percent  
*Urban land:* 25 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of San Joaquin

##### Setting

*Landform:* Terraces  
*Landform position (two-dimensional):* Toeslope  
*Landform position (three-dimensional):* Tread  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Alluvium derived from granite

##### Typical profile

*H1 - 0 to 13 inches:* fine sandy loam  
*H2 - 13 to 30 inches:* sandy clay loam  
*H3 - 30 to 35 inches:* clay loam  
*H4 - 35 to 60 inches:* indurated  
*H5 - 60 to 67 inches:* stratified sandy loam to loam

##### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches; 35 to 60 inches to duripan  
*Drainage class:* Moderately well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low (0.00 to 0.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Available water supply, 0 to 60 inches:* Low (about 4.4 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 3s  
*Hydrologic Soil Group:* C  
*Ecological site:* R017XY902CA - Duripan Vernal Pools  
*Hydric soil rating:* No

**Description of Urban Land**

**Typical profile**

*H1 - 0 to 6 inches: variable*

**Interpretive groups**

*Land capability classification (irrigated): None specified*

*Land capability classification (nonirrigated): 8*

*Hydric soil rating: No*

**Minor Components**

**Dierssen**

*Percent of map unit: 4 percent*

*Hydric soil rating: No*

**Bruella**

*Percent of map unit: 3 percent*

*Hydric soil rating: No*

**Xerarents**

*Percent of map unit: 1 percent*

*Hydric soil rating: No*

**Durixeralfs**

*Percent of map unit: 1 percent*

*Hydric soil rating: No*

**Unnamed, clayey subsoil**

*Percent of map unit: 1 percent*

*Hydric soil rating: No*

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Corporate Headquarters  
1322 E. Shaw Avenue, Suite 400 Fresno, CA, 93710  
www.soarhere.com • 559.547.8884

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**Cultural Resources Desktop Assessment  
3200 Rio Linda Blvd., Sacramento, CA 95815  
Assessor Parcel Number  
251-0292-016  
Sacramento, County, California**

*Prepared for*

Sarita Prasad  
427 Santa Ana Avenue  
Sacramento, CA 95738

*Prepared by*



1322 E Shaw Ave.  
Fresno, CA 93710

**Heather Froshour, Senior Archaeologist**

**February 7, 2023**



## **EXECUTIVE SUMMARY**

Soar Environmental Consulting, Inc. (Soar Environmental) has been retained by Sarita Prasad to prepare a Cultural Resources Assessment (Desktop) for a property located at 3200 Rio Linda Blvd. Sacramento, California, at Accessor Parcel Number (APN) 251-0292-016, City Project File Number P22-021. The purpose of the cultural resource desktop review is to provide an inventory of the known and potentially significant cultural resources within the project area through a California Historical Records Information search (CHRIS) using the North Central Information Center (NCIC).

The results of the records search indicate eight (8) cultural resources recorded within 0.50-mile of the project area. The records searches indicate no recorded cultural resources within the project area. No Phase 1 survey of the project area is required at the time of this report as required under CEQA, or NEPA. No site testing or mitigation measures are required, unless previously undiscovered cultural resources are detected during construction.



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## **1.0 Introduction**

This report details the results of a Cultural Resources Desktop Assessment in support of the proposed development at 3200 Rio Linda Blvd., Sacramento, California, APN 251-0292-016, City Project File Number P22-021 (Figures 1-3). This Desktop report is prepared pursuant to CEQA, PRC Sections 21082, 21083.2, and 21084.1, and California Code of Regulations 15064.5.

Heather Froshour completed the archival review and prepared this Desktop report. Ms. Froshour is Soar Environmental's Senior Archaeologist who meets the professional standards of the U.S. Secretary of the Interior for archaeology (36 CFR 61) and is certified by the Register of Professional Archaeologists.

The archival research for this Desktop report was negative for archaeological sites or historical resources within the project area. No Phase 1 survey of the project area is required at the time of this report as required under CEQA, or NEPA guidelines. As currently designed, the proposed Project will not impact any known archaeological sites or historical resources.

In the event that cultural resources are encountered during construction activities associated with the Project, a qualified archaeologist shall be obtained to assess the significance of the find in accordance with the criteria set forth in the California Register of Historical Resources (CRHR). In addition, Health and Safety Code 7050.5, CEQA 15064.5(e), and Public Resources Code 5097.98 mandate the process to be followed in the unlikely event of an accidental discovery of any human remains in a location other than a dedicated cemetery.

## **1.1 Project Description**

The Project proposes the rehabilitation of a 0.5 acres Fuel Stop Gas Station on APN 251-0292-016, City Project File Number P22-02 (Figure 3). The property consists of two existing structures, the main building of which has been boarded up for two years. Existing pumps remain on the site. Anticipated soil disturbance will include surface grading and boring and trenching for the rehabilitation of the existing Fuel Stop Gas Station. The City of Sacramento will require a full environmental review in addition to this cultural desktop assessment to be conducted on-site due to the history of a leaking gas tank that was certified as remediated over one year ago.

## **1.2 Existing Condition**

The project area is approximately 0.5-acre parcel at the intersection of Rio Linda Blvd. and Arcade Blvd. in the South Hagginwood neighborhood of Sacramento, California. Arcade Creek is located 78 meters to the north of the parcel with residential properties to the east. The parcel is approximately 1.78 kilometers south from I-80, Dwight D. Eisenhower Highway, and 2.30 kilometers northwest from Highway 160.

## **2.0 REGULATORY SETTING**



Federal, State and local governments have developed laws and regulations designed to protect significant cultural resources that may be affected by actions that they undertake or regulate. The National Environmental Policy Act (NEPA), National Historic Preservation Act (NHPA) and the California Environmental Quality Act (CEQA) are the basic federal and state laws governing preservation of historic and archaeological resources of national, regional, State and local significance.

## **2.1 Federal**

Federal regulations for cultural resources are governed primarily by Section 106 of the National Historic Preservation Act (NHPA) of 1966. Section 106 of NHPA requires Federal agencies to take into account the effects of their undertakings on historic properties and affords the Advisory Council on Historic Preservation a reasonable opportunity to comment on such undertakings. The Council's implementing regulations, "Protection of Historic Properties", are found in 36 Code of Federal Regulations (CFR) Part 800. The goal of the Section 106 review process is to offer a measure of protection to sites which are determined eligible for listing on the National Register of Historic Places. The criteria for determining National Register eligibility are found in 36 CFR Part 60. Amendments to the NHPA (1986 and 1992) and subsequent revisions to the implementing regulations have, among other things, strengthened the provisions for Native American consultation and participation in the Section 106 review process. While federal agencies must follow federal regulations, most projects by private developers and landowners do not require this level of compliance. Federal regulations only come into play in the private sector if a project requires a federal permit or if it uses federal money.

## **2.2 State**

### **California Register of Historical Resources**

In California, the term "historical resource" includes "any object, building, structure, site, area, place, record, or manuscript which is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California" (California PRC § 5020.1[j])(State of California 2021). In 1992, the California legislature established the California Register of Historical Resources (CRHR) "to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change" (California PRC § 5024.1(a)). The criteria for listing resources on the CRHR, enumerated in the following text, were developed to be in accordance with previously established criteria developed for listing in the National Register of Historic Places (NRHP). According to California PRC § 5024.1(c) (1- 4), a resource is considered historically significant if it (i) retains "substantial integrity," and (ii) meets at least one of the following criteria:

- 1) Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.



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- 2) Is associated with the lives of persons important in our past.
  - 3) Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.
  - 4) Has yielded, or may be likely to yield, information important in prehistory or history

To understand the historic importance of a resource, sufficient time must have passed to obtain a scholarly perspective on the events or individuals associated with the resource. A resource less than 50 years old may be considered for listing in the CRHR if it can be demonstrated that sufficient time has passed to understand its historical importance (14 CCR 4852[d][2]).

The CRHR protects cultural resources by requiring evaluations of the significance of prehistoric and historic resources. The criteria for the CRHR are nearly identical to those for the National Register of Historic Places (NRHP), and properties listed or formally designated as eligible for listing in the NRHP are automatically listed in the CRHR, as are state landmarks and points of interest. The CRHR also includes properties designated under local ordinances or identified through local historical resource surveys.

### **California Health and Safety Code, §7050.5**

California law protects Native American burials, skeletal remains, and associated grave goods, regardless of their antiquity, and provides for the sensitive treatment and disposition of those remains. California Health and Safety Code, §7050.5, requires that if human remains are discovered in any place other than a dedicated cemetery, no further disturbance or excavation of the site or nearby area reasonably suspected to contain human remains can occur until the County Coroner has examined the remains (California Health and Safety Code, §7050.5b). California PRC §5097.98, also outlines the process to be followed in the event that remains are discovered. If the County Coroner determines or has reason to believe the remains are those of a Native American, the County Coroner must contact the California NAHC within 24 hours (California Health and Safety Code, §7050.5c) (State of California 2021). The NAHC will notify the most likely descendant. With the permission of the landowner, the most likely descendant may inspect the site of discovery. The inspection must be completed within 48 hours of notification of the most likely descendant by the NAHC. The most likely descendant may recommend means of treating or disposing of, with appropriate dignity, the human remains, and items associated with Native Americans.

### **Native American Human Remains**

State law (California PRC §5097 et seq.) addresses the disposition of Native American burials in archaeological sites and protects such remains from disturbance, vandalism, or inadvertent destruction; establishes procedures to be implemented if Native American skeletal remains are discovered during construction of a project; and established the NAHC.



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In the event that Native American human remains, or related cultural material are encountered, §15064.5(e) of the CEQA Guidelines (as incorporated from PRC §5097.98) and California Health and Safety Code, §7050.5, defines the subsequent protocol. In the event of the accidental discovery or recognition of any human remains, excavation or other disturbances shall be suspended on the site, or any nearby area reasonably suspected to overlie adjacent human remains or related material. Protocol requires that the County Coroner or County-approved Coroner represented be contacted in order to determine if the remains are of Native American origin. Should the coroner determine the remains to be Native American, the coroner must contact the NAHC within 24 hours. The most likely descendant may make recommendations to the landowner or the person responsible for the excavation work for means of treating, with appropriate dignity, the human remains, and any associated grave goods as provided in California PRC §5097.98 (14 CCR 15064.5(e))(State of California 2021).

## **2.3 Local**

On September 26, 2017, the Sacramento County Board of Supervisors adopted an updated General Plan. The planning horizon of the County's previous General Plan was 1990 to 2010; the updated General Plan's planning horizon looks out to 2030 (County of Sacramento 2017). The Sacramento County General Plan Conservation Element, states under Section VIII, Cultural Resources, the following goal:

**Goal:** Promote the inventory, protection, and interpretation of the cultural heritage of Sacramento County, including historical and archaeological settings, sites, buildings, features, artifacts, and/or areas of ethnic historical, religious, or socio-economical importance.

### **Cultural Resource Surveys**

**Objective:** Comprehensive knowledge of archeological and historic site locations.

**Intent:** A survey and inventory cataloging historic structures, old farmsteads, and recorded Native American sites would assist the county in protecting areas of cultural significance while planning for development. The Sacramento Museum and History Center has tried unsuccessfully in the past to obtain grant monies from the State Office of Historic Preservation to initiate a survey of the entire County. This effort should continue. It should be noted that in 2005, the California Public Records Act was amended to permit any state or local agency to deny a public records act request and withhold from public disclosure certain records related to Native American sites (please refer to Government Code Sections 6254 (r) and 6254.10 for further information).

### **Implementation Measures:**

A. In cooperation with the North Central Information Center (NCIC) and cultural resources professionals, conduct:



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- A comprehensive survey to record the location of prehistoric, ethnohistoric and historic sites. (PLANNING & ENVIRONMENTAL REVIEW, REGIONAL PARKS)

### **Archeological Site Protection During Development**

**Objective:** Attention and care during project review and construction to ensure that cultural resource sites, either previously known or discovered on the project site, are properly protected with sensitivity to cultural and ethnic values of all affected.

**Intent:** Questionable measures throughout the state have incited Native Americans to strongly protest the disrespectful and improper destruction of their heritage and to seek regulations protecting remnants of their past. In 2004, California Senate Bill 18 was signed into law in order to ensure that local jurisdictions and Native American tribes have meaningful consultations during the early stages of the land use planning process. Under this bill, local jurisdictions work with the State Native American Heritage Commission to obtain Native American Tribal contact information as well as contact information for peoples of Native American Descent that may be able to provide input on proposed projects in the County that involve a General Plan or Specific Plan adoption/amendment or include an Open Space designation. These tribes are then contacted by the jurisdiction with information about the project and, at the tribes' request, can enter into a consultation process to discuss the project and ways to minimize any negative impacts on cultural resources. Throughout this process, local governments must recognize the sensitivity of resources and respect confidentiality requests regarding site specific information. In 2005, the California Public Records Act was amended to permit any state or local agency to deny a public records act request and withhold from public disclosure certain records related to Native American sites (please refer to Government Code Sections 6254 (r) and 6254.10 for further information).

Another important step in protecting cultural resources is to become a member of the Certified Local Government (CLG) program through the California Office of Historic Preservation and the National Park Service. Becoming a CLG member allows local jurisdictions to strengthen decision-making regarding historic places at the local level. The program also offers technical assistance, an opportunity to apply for grant funds and adds credibility to local cultural resource programs and standards.

Paleontology is the scientific study of life forms in the geologic past, which involves detailed analysis of plant and animal fossils. Paleontological resources are useful in education in that they promote the understanding of the history of life and the diversity of the Earth's biota.

Additionally, these resources document evolutionary history of the now extinct biota while helping to reconstruct environmental changes that have impacted life on Earth. Of particular importance, paleontological resources have helped to reconstruct paleoclimatology and the changes in the earth's climate which have occurred throughout history. As these resources are nonrenewable once destroyed, paleontological resources have been afforded protections under CEQA.



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There are at least five recorded sites in Sacramento County which have revealed fossil remains dating back to 100,000 years ago. Policies CO-150 through CO-163 help to ensure that future finds of this valuable resource are protected.

Policies:

CO-150. Utilize local, state and national resources, such as the NCIC, to assist in determining the need for a cultural resources survey during project review.

CO-151. Projects involving an adoption or amendment of a General Plan or Specific Plan or the designation of open space shall be noticed to all appropriate Native American tribes in order to aid in the protection of traditional tribal cultural places.

CO-152. Consultations with Native American tribes shall be handled with confidentiality and respect regarding sensitive cultural resources on traditional tribal lands.

CO-153. Refer projects with identified archeological and cultural resources to the Cultural Resources Committee to determine significance of resource and recommend appropriate means of protection and mitigation. The Committee shall coordinate with the Native American Heritage Commission in developing recommendations.

CO-154. Protection of significant prehistoric, ethnohistoric and historic sites within open space easements to ensure that these resources are preserved in situ for perpetuity.

CO-155. Native American burial sites encountered during preapproved survey or during construction shall, whenever possible, remain in situ. Excavation and reburial shall occur when in situ preservation is not possible or when the archeological significance of the site merits excavation and recording procedure. On-site reinterment shall have priority. The project developer shall provide the burden of proof that off-site reinterment is the only feasible alternative. Reinterment shall be the responsibility of local tribal representatives.

CO-156. The cost of all excavation conducted prior to completion of the project shall be the responsibility of the project developer.

CO-157. Monitor projects during construction to ensure crews follow proper reporting, safeguards, and procedures.

CO-158. As a condition of approval of discretionary permits, a procedure shall be included to cover the potential discovery of archaeological resources during development or construction.

CO-159. Request a Native American Statement as part of the environmental review process on development projects with identified cultural resources.

CO-160. County Planning and Environmental Review staff shall take historical and



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cultural resources into consideration when conducting planning studies and documents in preparation of, including but not limited to, areas plans, corridor plans, community plans, and specific plans.

CO-161. As a condition of approval for discretionary projects, require appropriate mitigation to reduce potential impacts where development could adversely affect paleontological resources.

CO-162. Projects located within areas known to be sensitive for paleontological resources, should be monitored to ensure proper treatment of resources and to ensure crews follow proper reporting, safeguards and procedures.

CO-163. Require that a certified geologist or paleoresources consultant determine appropriate protection measures when resources are discovered during the course of development and land altering activities.

### **3.0 SETTING**

#### **3.1 Environmental Setting**

The project area is characterized by hot, dry summers and cool, wet winters. Average annual rainfall from 2000-2023 is approximately 18.14 inches with summer temperatures having a mean maximum of 106F (July) and winter temperatures with a mean minimum of 27F (December) (National Oceanic and Atmospheric Administration 2023).

##### **Geological Context**

The project area lies within the Sacramento Valley, which is located within the Great Valley Geomorphic Province. The Great Valley is a low, fairly level, alluvial plain approximately 400-miles long by approximately 50-miles wide that is bounded by the Sierra Nevada Mountains to the east and south, the Coast Ranges to the west, and the Klamath Mountains to the north. The province consists of tremendously thick sediments dating from the Jurassic period and overlaid by geologically recent alluvial deposits of sand, silt, and clay eroding from surrounding mountain ranges. The sediments in the Great Valley vary between 3 and 6 miles in thickness and were derived primarily from erosion of the Sierra Nevada to the east and to a lesser extent material from the Coast Ranges to the west.

##### **Biological Context**

Two main plant communities make up the flora of the area surrounding the Project, the Valley Grassland and Riparian Woodland communities. The Valley Grassland plant community is characterized by native perennial bunch grasses that have been replaced to great extent by introduced xeric grasses. The Riparian Woodland community is identified by deciduous trees, shrubs and herbs that are restricted to the banks of water ways. The Riparian overstory is dominated by sycamore, willows, valley oak, and cottonwoods. The understory is dominated by

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poison oak, ferns, blackberries, and mesic grasses (Ornduff 1974).

Before European settlement, the Sacramento area floodplains supported a wide diversity and large numbers of wildlife species associated with its riparian habitats, permanent and seasonal wetlands, and oak woodlands and savannas. Much of this habitat was lost after levees were built to prevent flooding along the rivers and land outside of the levees could be converted to agriculture. More recent land use conversions have been to urban development. As a result, there have been shifts in patterns of wildlife use as land uses and habitats within the project study area have changed. The abundance of species restricted to natural habitats has decreased, and in some cases particular species are no longer found. However, the remnant native habitats along the rivers and creeks that are described above have allowed remnant wildlife populations to persist.

The project area provides suitable habitat for many common birds and other wildlife species that are able to utilize the generally narrow corridors of remnant natural vegetation. Aboriginal wildlife included antelope, elk, deer, various smaller mammals and waterfowl, and numerous species of fish in rivers and sloughs that have been depleted since historic contact (Beck and Haase 1974).

### **3.2 Cultural Setting**

Cultural resources include prehistoric-era archaeological sites, historic-era archaeological sites, Native American traditional cultural properties, sites of religious and cultural significance, and historical buildings, structures, objects, and sites. The importance of any single cultural resource is defined by the context in which it was first created, current public opinion and modern yet evolving analysis. From the analytical perspective, temporal and geographic considerations help to define the historical context of the project area. The importance or significance of a cultural resource is in part described by the context in which it originated or developed. National Park Service Bulletin 16a (1997) describes a historic context as “information about historic trends and properties grouped by an important theme in prehistory or history of a community, state, or the nation during a particular period of time.” A context links an existing property to important historic trends, and this allows a framework for determining the significance of a property. Given this, a major goal of the historian is to determine accurate themes of analysis, a task that can only be undertaken by a thorough review of previous researchers’ thoughts and ideas, as well as reviewing the literature of the resources.

In California, historians have divided the past into broad categories based on climate models, archaeological dating and written histories. Paleontologists divide time into much larger segments, with defined and named periods of time shortening in timespan as the modern era is reached. For the purposes of this analysis, these periods in history have been summarized below.

#### **3.2.1 Prehistoric Setting**

Occupation in the Sacramento Valley is estimated to have occurred as early as 12,000 years Before Present (B.P.). However, only a few archaeological sites have been identified that predate 5,000 years B.P. It is possible that Holocene alluvial deposits buried many prehistoric sites in



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this area. It is estimated that as much as 10 meters of sediment accumulated along the lower stretch of the Sacramento drainage system during the last 5,000-6,000 years (Moratto 1984).

The economy of this early period thought to be based on exploitation of large game. Although rare, archaeological remains of this period have been identified in and around the Central Valley (Johnson 1967). Several lithic cores and a flake were identified in late Pleistocene gravels, located in the Mokelumne River area, under what is now Camanche Reservoir. These archaeological remains have been grouped into what is called the Farmington Complex, which is characterized by core tools and large, secondary percussion flakes (Treganza and Heizer 1953).

The taxonomic framework of the Sacramento Valley has been described in terms of archaeological patterns (Moratto 1984). A pattern is a general mode of life characterized archaeologically by technology, particular artifacts, economic systems, trade, burial practices, and other aspects of culture. Three general patterns of resource use were proposed for the time between 2500 B.C. and A.D. 1500: the Windmill, Berkeley, and Augustine Patterns (Fredrickson 1973).

#### **Early Period/Windmill Pattern (2500 B.C. to 1000 B.C.)**

The pattern shows evidence of a mixed economy of game procurement and use of wild plant foods. The archaeological record contains numerous projectile points with a wide range of faunal remains. Hunting was not limited to terrestrial animals, as is evidenced by the Windmill toolkit, which included fishing hooks and spears, with the remains of sturgeon, salmon, and other fish. Plant resources were also used, as indicated by ground stone artifacts and clay balls that were used for boiling acorn mush. Settlement strategies during the Windmill period reflect a seasonal adaptation. Habitation sites in the valley were occupied during the winter months, but populations moved into the foothills during the summer (Moratto 1984).

#### **Middle Period/Berkeley Pattern (1500 B.C. to 500 A.D.)**

The onset of the Middle period represents a specialized adaptation where a reduction in the number of manos and metates and an increase in mortars and pestles of the archaeological record indicate a greater dependence on acorns. Although gathered resources grew in importance during this period, the continued presence of projectile points and atlatls indicate hunting remained an important activity (Fredrickson 1973).

#### **Late Period/Augustine Pattern (A.D. 500-1769)**

The Late period reflects a change in subsistence and land use patterns to those of the *Nisenan* tribes. This pattern exhibits a great elaboration of ceremonial and social organization, including the development of social stratification and exchange systems. Intensive use of acorn is evidenced by mortars and pestles and numerous hopper mortars. Other notable elements of the artifact assemblage associated with the Augustine Pattern include flanged tubular smoking pipes, harpoons, clam shell disc beads, and an especially elaborate baked clay industry, which included figurines and pottery vessels (Cosumnes brownware). The presence of small projectile point

types, referred to as Gunther Barbed series, suggests the use of the bow and arrow. Other traits associated with the Augustine Pattern include the introduction of pre-interment burning of offerings in grave pit mortuary rituals, increased village sedentism, population growth, and incipient monetary economy in which beads were used as a standard of exchange (Moratto 1984).

### 3.2.2 Ethnographic Setting

The project area is within the boundaries of the Penutian-speaking Maidu, more commonly known as *Nisenan* (Wilson and Towne 1978). The Nisenan occupied the drainages to the lower Feather River, the Yuba River, the Bear River, and the American River. The Sacramento River and the foothills of the Sierra Nevada delineated their western and eastern boundaries. Three Nisenan dialects, Northern Hill, Southern Hill, and Valley, were distinguished (Kroeber 1925). Neighboring groups included the Southern Patwin to the west, across the Sacramento River beyond the Yolo Basin, and the Plains Miwok to the south.

The Valley Nisenan generally established semi-permanent settlements or winter villages on low, natural rises along streams and rivers or on gentle, south-facing slopes. Communities comprised of a central village with several outlying smaller villages. The number of houses varied from three to seven in the smaller villages and 40-50 houses in the larger villages. Houses were circular, dome-shaped, or conical earth-covered semisubterranean structures. Structures also included dance houses, sweathouses, and acorn granaries. Village population ranged from 15 to more than 100 individuals. Deceased Nisenan were cremated, and the remains buried in cemeteries (Wilson and Towne 1978).

The Nisenan hunted, fished, and collected plant foods in an area where natural resources varied seasonally. Like many native Californians, the Nisenan relied on the acorn as a daily source of nutrition. Acorns were collected during the fall and stored in granaries. Other vegetal resources supplemented acorns, such as pine nuts, hazelnuts, buckeye nuts, fruits, berries, underground onions and tubers, and seeds. Salmon and other fish, shellfish, birds, grasshoppers and other insects, and large and small mammals were also consumed. Large animals hunted as prey included deer, elk, antelope, and black bears.

A wide variety of tools, implements, and enclosures were employed by the Nisenan to gather and collect food resources. These included the bow and arrow, traps, nets, slings, and blinds for hunting land mammals and birds. Harpoons, hooks, nets, and tule, balsa, and log canoes were used during fishing practices. Atlatls were commonly used to hunt rabbits and hares. Large nets and clubs were used during communal drives. Woven tools-seed beaters, burden baskets, and carrying nets and sharpened digging sticks were used to collect plant resources.

The Nisenan processed food resources with a variety of tools, including portable stone mortars bedrock mortars and pestles, anvils, woven strainers and winnowers, leaching baskets and bowls, woven parching trays, wooden mortars, and knives. Unprocessed acorns were stored in large granaries. They also traded between Nisenan groups for various resources and implements and with neighboring groups for shell ornaments and money beads, steatite, and obsidian.

Spanish explorers first crossed into Nisenan territory in 1808, but there is no record of Nisenan peoples being removed from their lands to Spanish missions (Wilson and Towne 1978). Trappers entered the Sacramento Valley in the late 1820s and camped in Nisenan territory. Because of the introduction of foreign diseases, an estimated 75 percent of the Valley Nisenan perished during the 1833 Sacramento Valley epidemic. With entire villages wiped out, Valley Nisenan survivors retreated into the hills (Cook 1955). Although Euro-American settlers and trappers crossed through their territory, Hill Nisenan were not affected until after 1848.

The discovery of gold in 1848, at Sutter's Mill near Coloma on the American River, had a devastating impact on the lives of indigenous Californians in the Sacramento and San Joaquin Valleys and all along the foothills of the Sierra Nevadas (Chartkoff and Chartkoff 1984). Coloma was in the heart of Nisenan territory. With the tens of thousands of gold seekers came the mass introduction and concentration of diseases, the loss of land and territory (including traditional hunting and gathering locales), violence, malnutrition, and starvation (Grunsky 1989). Traditional lands of the Hill Nisenan were overrun in the early 1850s, and Nisenan survivors then lived at the margins of foothill towns and worked for agricultural, logging, and ranching industries (Wilson and Towne 1978).

Although few descendants of the Valley Nisenan were recorded in the 1960 United States Census, several Hill Nisenan families resided in El Dorado, Nevada, Placer, and Yuba Counties in the 1970s (Wilson and Towne 1978). As of today, there are approximately 2,500 Maidu people including the Maidu of Plumas and Lassen Counties, the Konkow of Butte and Yuba Counties, and the Nisenan of El Dorado, Nevada, Placer, Sacramento, and Yuba Counties—who live primarily on the Rancherias of Auburn, Berry Creek, Chico, Enterprise, Greenville, Mooretown, Shingle Springs, and Susanville, as well as on the Round Valley Reservation.

### **3.2.3 Historic Setting**

Post-contact history for the state of California is divided into three specific periods: the Spanish Period (1769-1821), the Mexican Period (1821-1848), and the American Period (1848-present).

#### **Spanish Period (1769-1821)**

Despite being sited within the territory claimed by Spain, European exploration between 1529-1769 of Alta (upper) California was limited. During this nearly 250-year span, there were only brief visits by Spanish, Russian, and British explorers. In the spring of 1769, Gaspar de Portola and Father Junipero Serra established Misión San Diego de Alcalá in San Diego, Alta California. It was the first of 21 missions that would be built by the Spanish and the Franciscan Order between 1769 and 1823. The newly established Spanish settlement marked the beginning of a devastating disruption of the culture of indigenous Californians.

Portola continued north, reaching San Francisco Bay on October 31, 1769. Later expeditions to Alta California by Pedro Pages (1772), who was seeking a site for a mission, and Juan Bautista de Anza (1776), who was seeking a site for a presidio and mission, explored the land east of San



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Francisco Bay and viewed the vast plains to the east (Grunsky 1989).

In 1808, Spanish Lieutenant Gabriel Moraga led the first expedition into the Sacramento Valley and traveled northward along the Sacramento River. The expedition scouted for new mission locations and for runaway Indian neophytes from the coastal missions. Moraga traveled south as far as the Merced River and explored parts of the American, Calaveras, Cosurnnes, Feather, Mokolurnne, and Stanislaus Rivers to the north. In 1817, the final Spanish expedition into the interior of Alta California was led by Luis Arguello, who traveled up the Sacramento River, past the future site of the city of Sacramento to the mouth of the Feather River, before returning to the coast (Beck and Haase 1974).

### **Mexican Period (1821-1848)**

With the declaration of Mexican independence in 1821, Spanish control of Alta California ended, although little change occurred. Political change did not take place until mission secularization in 1834, when Native Americans were released from missionary control and the mission lands were granted to private individuals. Researchers hypothesize that mission secularization removed the social protection and support on which Native Americans had come to rely exposing them to further exploitation by outside interests, often forcing them into a marginal existence as laborers for large ranchos.

After the Mexican-Spanish Revolution of 1822, all Spanish holdings in North America (including both Alta and Baja California) became part of the new Mexican republic. With the onset of the Mexican Period, an era of extensive land grants had begun, in contrast to the Spanish colonization through missions and presidios. With the intent to drive Mexican citizens away from the highly concentrated coastal settlements, most of the granted lands were inland.

With the opening by Mexico of California to Americans after the 1822 Mexican revolution, the fur trappers, also known as “mountain men”, began exploring west of the Sierra Nevada Mountains. The first trapper to enter California was Jedediah Smith, whose small party trapped and explored along the Sierra Nevadas in 1826. His party entered the Sacramento Valley in 1827, traveling along the Cosumnes and American Rivers and camping near Wilton and the Rosemont section of modern-day Sacramento. As a result of the explorations by Smith and other trappers, maps of the Sacramento Valley were created and circulated in the 1830s (Grunsky 1989).

Between 1830 and 1833, large numbers of the indigenous population in the Sacramento Valley died from introduced European diseases. Whole tribes were decimated along the American, Merced, Tuolumne, and Yuba Rivers (Cook 1955). In 1837, the Sacramento Valley was hit by a second epidemic, which further annihilated indigenous Californians. The issuance of numerous land grants, accompanied by population increases, contributed to the continuing introduction of foreign diseases for which Native Americans had no immunity.

Several land grants were issued in the Sacramento area, starting in 1833 with John Rogers Cooper, a British sea captain who married into an established Californio family (Grunsky 1989).



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John A. Sutter received the two largest land grants in the Sacramento Valley. In 1839, Sutter founded a trading and agricultural empire called New Helvetia, which was headquartered at Sutter's Fort near the divergence of the Sacramento and American Rivers, in Valley Nisenan territory.

### **American Period (1848-Present)**

The Mexican-American War (1846-1848) resulted in Mexico releasing its northern territories (now the states of California, Arizona, Colorado, New Mexico, and part of Utah) to the United States under the 1848 Treaty of Guadalupe Hidalgo. Although California became a territory of the United States, the full impact of "Americanization" would not occur until the discovery of gold in 1848. The discovery of gold on the American River at Sutter's Mill had a devastating impact on the lives of indigenous Californians in the Central Valley and all along the foothills of the Sierra Nevadas (Chartkoff and Chartkoff 1984). The mass introduction and concentration of diseases, the loss of land and territory (including traditional hunting and gathering locales), violence, malnutrition, and starvation accompanied the tens of thousands of gold seekers (Grunsky 1989).

One year after the discovery of gold, nearly 90,000 people journeyed to the gold fields of California. A portion of Sutter's Mexican land grant became the bustling Gold Rush boomtown of Sacramento. Largely due to the Gold Rush, California became the 31st state in 1850. By 1853, the population of the state exceeded 300,000 and in 1854, Sacramento became the state capital.

As the surface gold (i.e., placer gold) disappeared along the rivers (including the American River) and other waterways, mining shifted toward more industrialized methods of extraction, including hydraulic and dredge mining. Hydraulic mining was outlawed in the 1880s, although dredge mining continued at a smaller scale in the western Sierra foothills into the 1950s. Extensive dredge tailings along the American River bear witness to this environmentally destructive mining method.

The City of Sacramento survived several early devastating floods and fires. In addition to its central location to the mining district in the foothills, it served as a river transportation hub after Sutter began a steamer service. By 1853, the City of Sacramento had 12 stage transportation lines. Sacramento was also the westernmost point of the Pony Express (1860-1861) and the terminal of the first California railroad, the Sacramento Valley line, which ran 22 miles east to Folsom (Beck and Haase 1974).

With the completion of the transcontinental railroad in 1869, thousands of new settlers and immigrants poured into the state during the second half of the nineteenth century. California was rapidly becoming a national leader in the production of agricultural products. The vast Central Valley's fertile soil, combined with numerous irrigation canals, promoted the growth of large amounts of fruits, vegetables, and nuts, as well as vineyards (introduced early in the Spanish and Mexican Periods), livestock (cattle and sheep), and field crops, such as hay, cotton, rice, and barley.



In the Sacramento area, land-based agriculture and livestock (sheep, beef, and dairy cattle) became the dominant industry. Primary agricultural products included rice, vegetables, and hay, as well as fruits and nuts. This agriculture-based industry promoted the growth of multiple food-processing plants in Sacramento and nearby Yolo County. By the 1940s, several military installations had been located in Sacramento County near the City of Sacramento. Later, some of the leading aerospace industries in the state of California also located in this region.

Since the award of the 44,000-acre Rancho del Paso to Eliab Grimes in 1844, the area experienced a lengthy, although protracted, period of historic development. In 1910, Rancho del Paso was purchased by the Sacramento Valley Colonization Company. After the purchase, subdivision of the rancho lands began.

The project area is in the South Hagginwood residential neighborhood of Sacramento in an area of northwestern Sacramento County that was largely undeveloped until the early twentieth century. One of the most significant historic developments in the area was the construction of the Northern Electric Railway (NERY), the seed of which began from the Chico Electric Railway 5-mile line built to service the Diamond Match Company's Barber mill. Once the NERY purchased the line, they began construction on a larger interurban railway which began service between Oroville and Chico in 1906. The track then soon pushed south to Marysville and reached Sacramento in 1907. This interurban route made the Northern Electric Railway a serious competitor for the Southern Pacific in the upper Sacramento Valley (Groff 2011). The mainstay of the Northern Electric in its earliest years was passenger service into the countryside. By 1918, following their 1914 bankruptcy, the NERY's new investors incorporated the Sacramento Northern Railroad Company and bought the NERY. The railroad provided an efficient way to deliver agricultural produce-fruit, dairy products, rice, beans, and grains-as well as building materials to urban markets. In 1924 the Sacramento Northern Railway began offering a suburban commuter rail service for the 11-mile route from Elverta to Sacramento, but by 1940 passenger traffic had been phased out completely. In the 1950s diesel locomotives replaced electric power, and the line was gradually shut down. The tracks were removed between 1985 and 1990.

## **4.0 ARCHIVAL RECORDS SEARCH**

### **4.1 North Central Information Center Records Search**

The project area is located in the USGS Rio Linda 7.5' Series quad (USGS 2022). On January 18, 2023, Soar submitted a records search request to the North Central Information Center (NCIC) located at the California State University, Sacramento (Appendix A). The records search included a 0.5-mile buffer around the project area. The results from the records search indicate no previous cultural resource studies have been conducted within the project area. According to the information on file, there has been no recorded resource within the project area. There are eight (8) recorded resources within the 0.5-mile record search radius; P-34-000522, P-34-000638, P-34-000746, P-34-005019, P-34-005512, P-34005513, P-34-005534, and P-34-005535. These resources are identified as a historic levee (P-34-000522), a historic Tabernacle & Pentecostal Church building c. 1939 (P-34-000638), a historic railroad and railroad associated embankment and staging areas (P-34-000746), a historic steel lattice transmission tower c. 1967



(P-34-005019), a historic single story residential building c. 1949 (P-34-005512), a historic single story residential building c. 1953 (P-34005513), a historic single story residential building c. 1926 (P-34-005534), and ), a historic single story residential building c. 1951 (P-34-005535). There were nineteen (19) reports identified within a 0.5-mile radius of the project area. There are no recorded cultural resources within the project area or radius that are listed in the National Register of Historic Places, the California Register of Historical Resources, the California Points of Historical Interest, California Inventory of Historic Resources, or the California State Historic Landmarks.

## 4.2 Historic Aerial Image Review

Review of historic aerial imagery reveals residential structures present in the project area as early as 1947. Railroad tracks running north-south are also visible in the parcels that surround the project area as this time, with the modern road systems, as well as the levee along Arcade Creek to the north, visible by 1949. A structure within the project area is visible in the 1957 historic aerial image, however the California Historical Resources Information System (CHRIS) records search indicated that no historical resource is present within the project area parcel. The aerial photograph from 1984 is the first to show the main structure and gas pumps first present in the project area (Nationwide Environmental Title Research, LLC 2020). The year built listed by the Sacramento County Assessor's Office (2023) is 1967.

## 5.0 PREVIOUS DISTURBANCES IN THE PROJECT AREA

The project area is located within an area that has undergone anthropogenic modifications, primarily from activities related to commercial and residential development. Likewise, the surface of the project area has undergone surface grading trenching (Figure 3). The exact depth of the underground storage tanks (USTs) is unknown at the date of this report; however, the UTSs could exceed 5-7 feet (1.5-2.1 meters) below ground surface.

In summary, the following previous disturbances have occurred within or immediately adjacent to the project area:

- Surface grading and maintenance of current and historic for roadways
- Surface and subsurface utility trenching
- Erosion control activities
- Trenching for UTSs
- Excavator activity for residential and commercial structural construction

While the exact extent of these previous disturbances within and immediately adjacent to the Project area is not known, it is obvious that the entire project area surface has been disturbed to varying depths.

In summary, there have been numerous disturbances immediately adjacent to the project area which includes surface grading and maintenance of roadways and subsurface utility systems. In these locations, no significant *in situ* subsurface archaeological resources were reported or documented. At the project area, there have been various modern surface and subsurface



disturbances related to the construction and maintenance of the Fuel Stop Gas Station, and no *in situ* subsurface archaeological resources were reported or documented.

## 6.0 Methods

The purpose of this desktop report is to provide Ms. Sarita Prasad and the City of Sacramento, with information necessary to determine whether the Project would cause an adverse change to a historical resource, as defined in PRC §5020.1(j) and, therefore, result in significant impact to the environment under CEQA. To accomplish this objective, Soar Environmental completed a historical resources records search, historical and geoarchaeological background research.

This investigation included the following tasks:

- Review of regional history and previous cultural resource sites and studies within the project area and the vicinity.
- Examination of archival topographic maps and aerial photographs for the project area and the general vicinity.
- Request of a California Historical Resources Information System data request of the project area and 0.50-mile radius through the Southern San Joaquin Valley Information Center.
- Evaluate the potential for the proposed Project to result in significant impacts to cultural resources including the potential to impact buried cultural resources with no surface expression.
- Develop recommendations associated with impacts to cultural resources following the guidelines as outlined in the Regulatory Setting.

## 7.0 RECOMMENDED ACTIONS AND MITIGATION MEASURES

There appears to be a low possibility for subsurface cultural resources in the APE, based on the results of the archival research, and the fact that no known resources have been detected during previous disturbances within the project area. There are no recorded cultural resources within the 0.5-mile buffer radius that are listed in the National Register of Historic Places, the California Register of Historical Resources, the California Points of Historical Interest, California Inventory of Historic Resources, or the California State Historic Landmarks. No site testing or mitigation measures are recommended or required, unless previously undiscovered cultural resources are detected during construction.

A potential always exists to encounter previously undetected cultural resources. If cultural materials (prehistoric and/or historic artifacts) are detected during the course of ground disturbances associated with this project, all work in the immediate area of the find shall be halted until a qualified archaeologist can inventory and assess the significance of the find(s). At that point, the resources shall be evaluated in accordance with the procedures set forth in the California Environmental Quality Act (CEQA) 21083.2, sections 15064.5 and 15126.4, and the



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criteria regarding resource eligibility to the California Register of Historic Resources (CRHR).

If a resource cannot be avoided, then the resource must be examined vis-à-vis the provisions in the County Guidelines, and CEQA Sections 15064.5 and 15126.4 and the eligibility criteria as an “important” or “unique archaeological resource”, as appropriate. In many cases, determination of a resource’s eligibility can only be made through extensive research and archaeological testing.

Human remains are addressed by State of California Health and Safety Code Section 7050.5. This code section states that no further disturbance shall occur until the County Coroner has made a determination of the origin and disposition of the remains, pursuant to Public Resources Code Section 5097.98. The County Coroner must be notified of the find immediately. If the human remains are determined to be prehistoric/ethnohistoric Native American remains, the Coroner will notify the Native American Heritage Commission (NAHC), which will determine and notify a Most Likely Descendent (MLD). The MLD shall complete the inspection of the site within 24 hours of notification, and may potentially recommend scientific removal, reburial, nondestructive analysis of human remains, and/or specific treatment of associated burial goods.

## **8.0 REFERENCES CITED**

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Corporate Headquarters

1322 E. Shaw Avenue, Suite 400 Fresno, CA, 93710  
www.soarhere.com • 559.547.8884

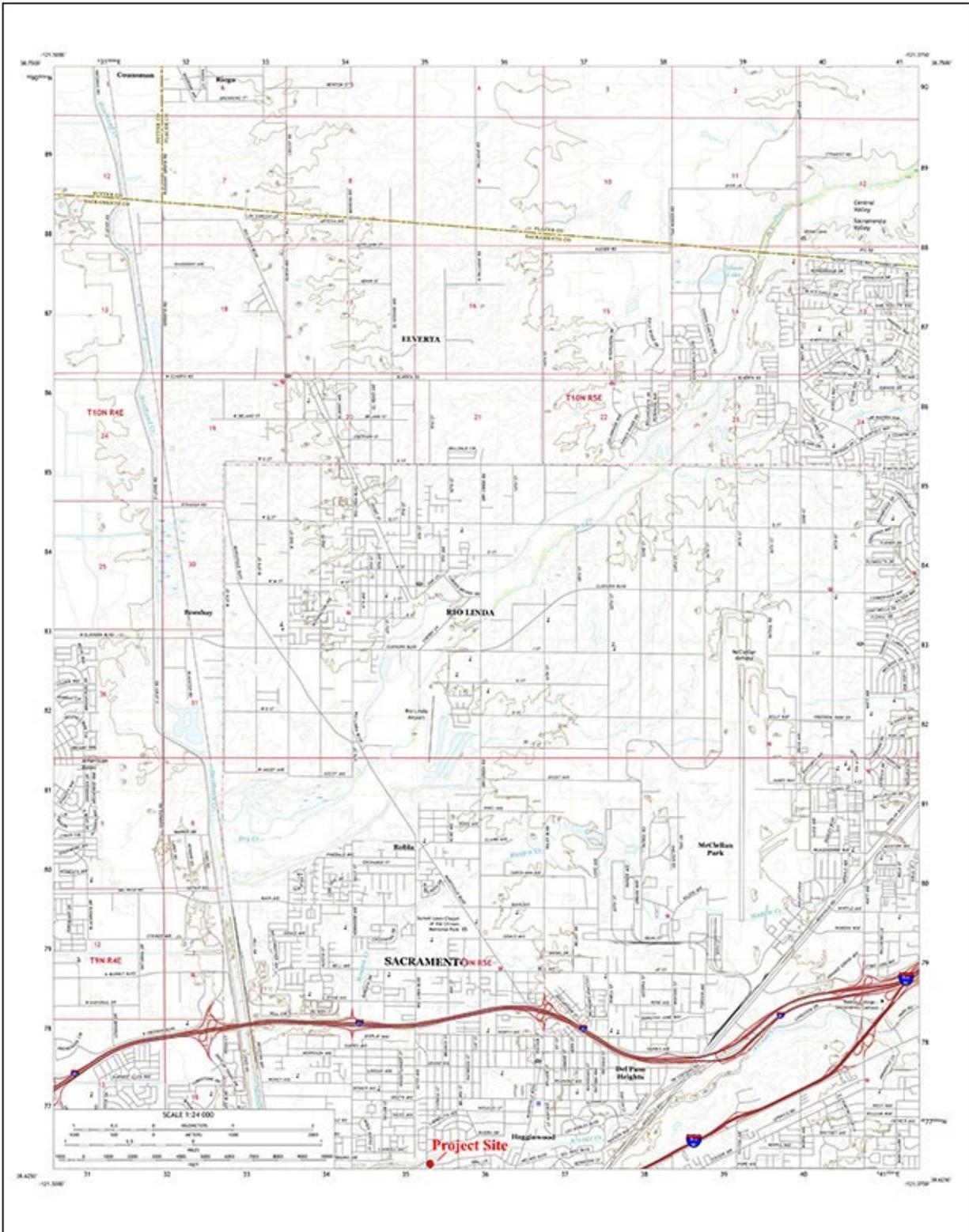
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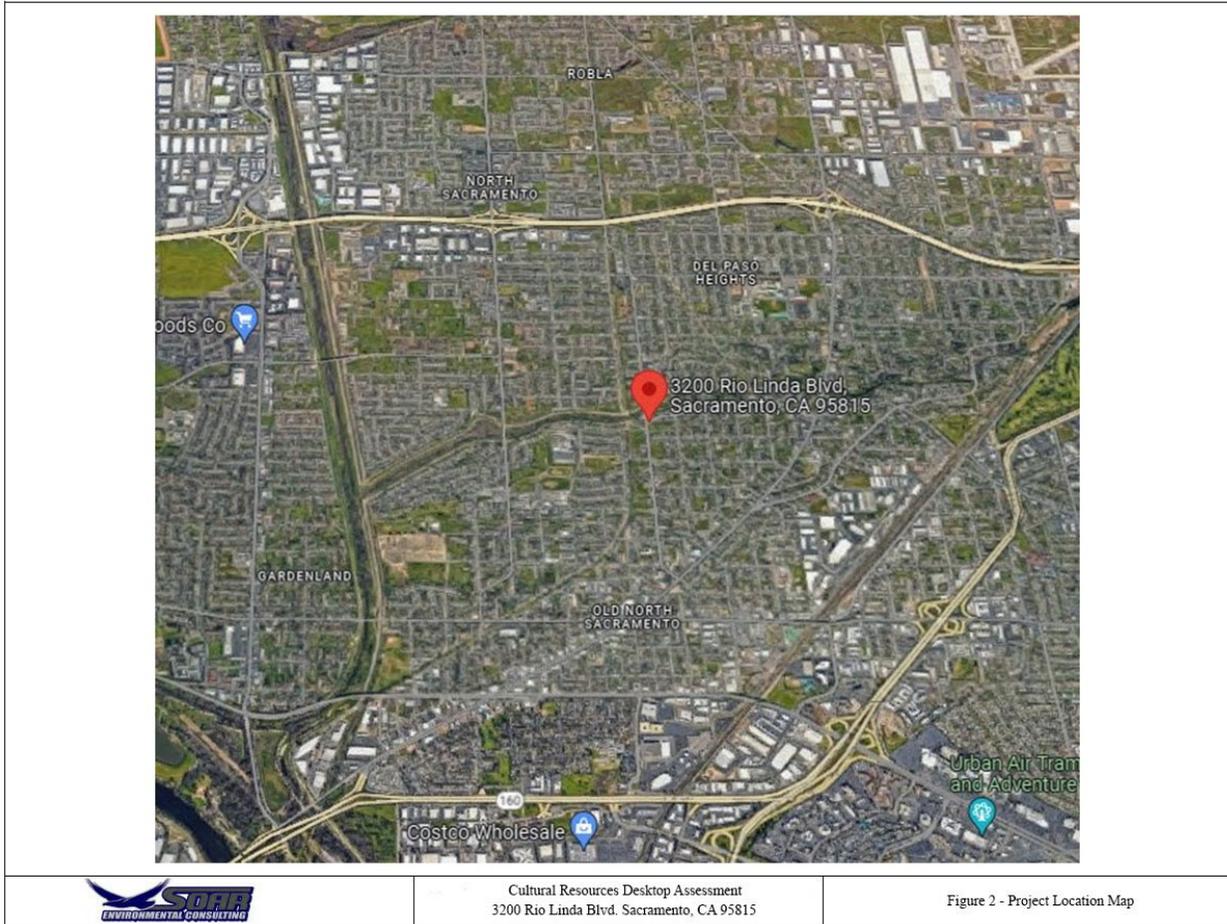


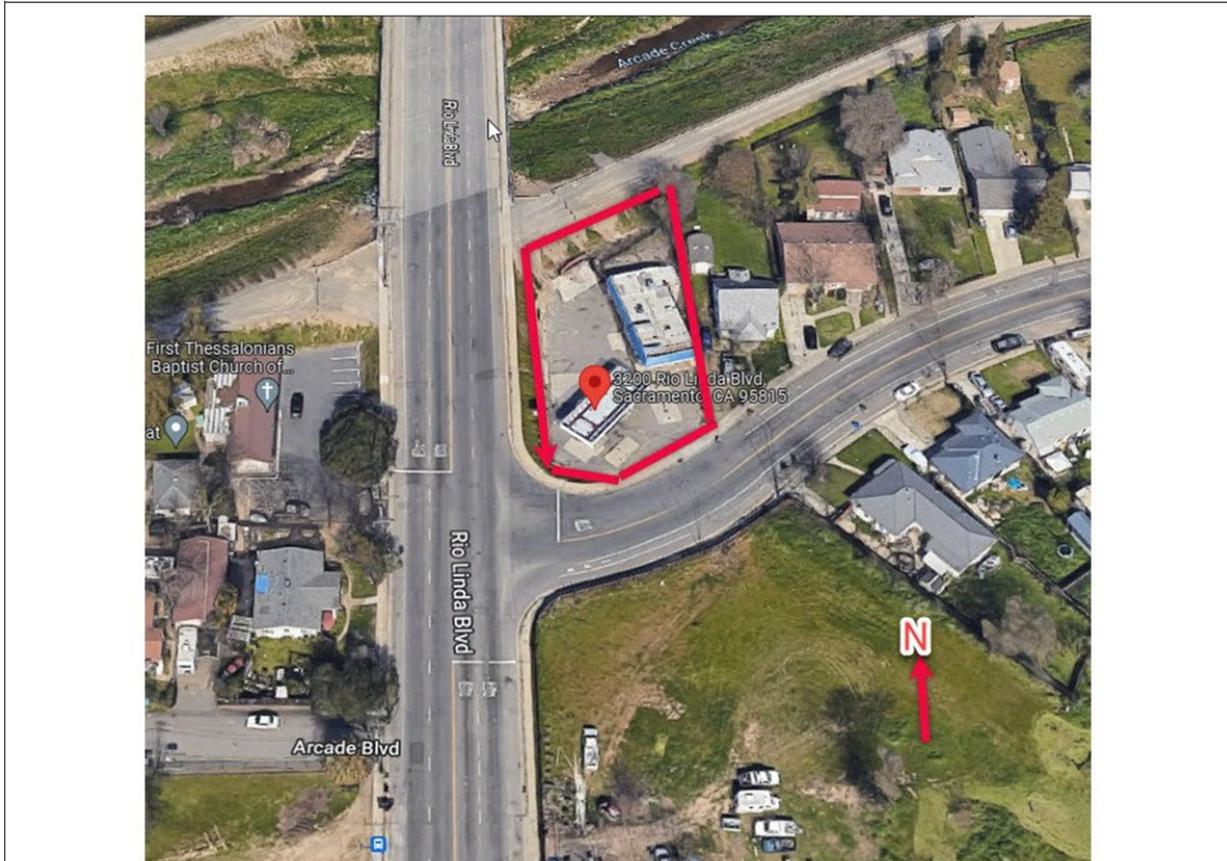
## FIGURES



Cultural Resources Desktop Assessment  
3200 Rio Linda Blvd. Sacramento, CA 95815

Figure 1 - Project Location (adapted from  
USGS 7.5' Series Rio Linda, California  
2022





Cultural Resources Desktop Assessment  
3200 Rio Linda Blvd. Sacramento, CA 95815

Figure 3 - Project Vicinity Map



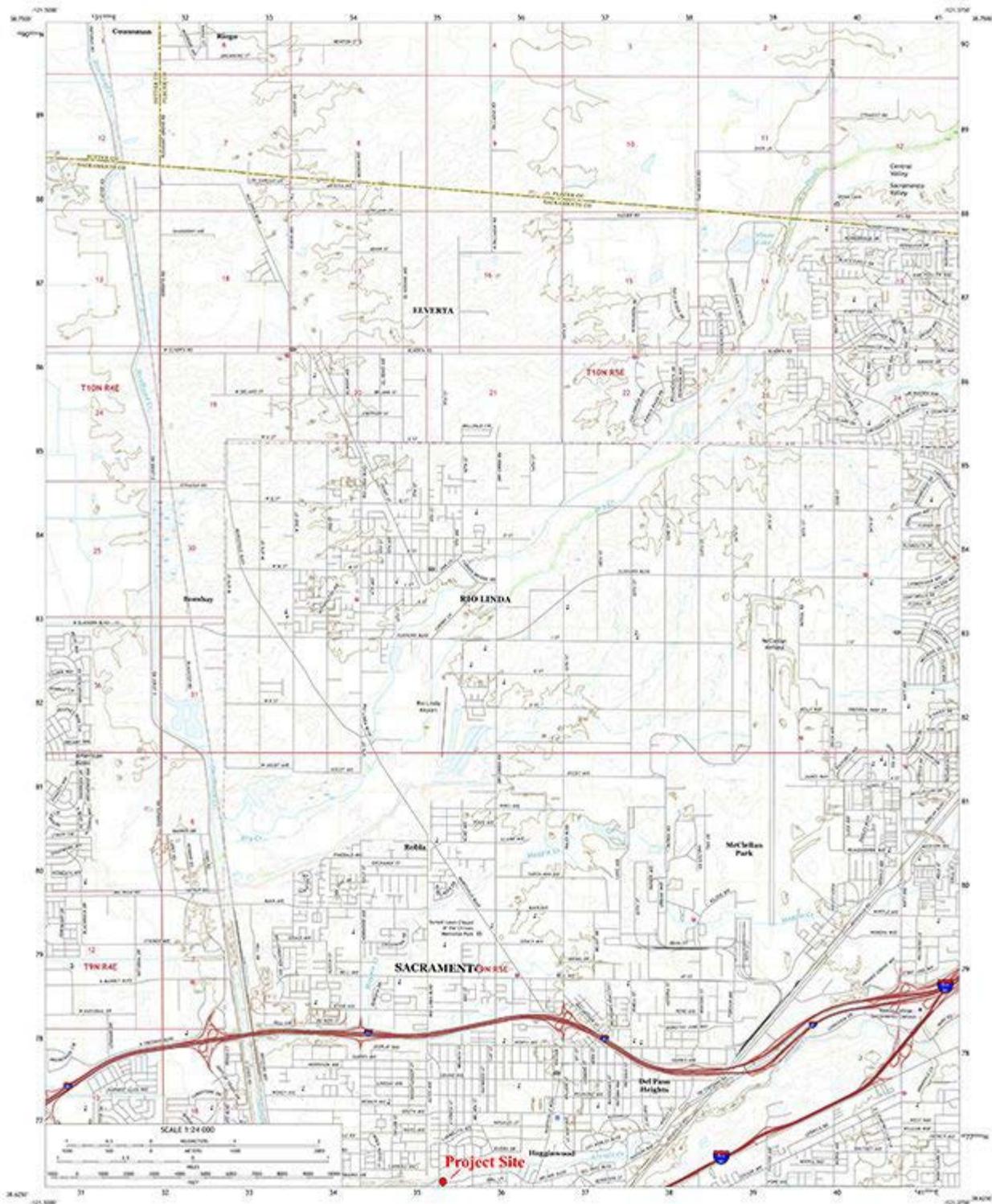


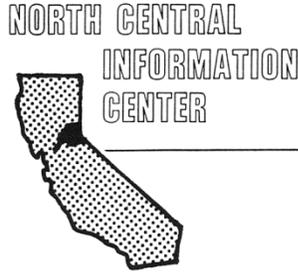




## APPENDIX A

Records Search from the North Central Information Center





1/19/2023

NCIC File No.: SAC-23-17

Heather Froshour  
Soar Environmental Consulting  
1322 East Shaw Ave. S-400  
Fresno, CA 93710

Re: CEQA IS Sarita Prasad Sacramento, CA

The North Central Information Center (NCIC) received your records search request for the project area referenced above, located on the Rio Linda USGS 7.5' quad. The following reflects the results of the records search for the project area and a ½-mi radius.

As indicated on the data request form, the locations of resources and reports are provided in the following format:  custom GIS maps  GIS data

|   |   |
|---|---|
| Recorded resources within project area:                 | None  |
| Recorded resources outside project area, within radius: | P-34-522 P-34-638 P-34-746 P-34-5019<br>P-34-5512 P-34-5513 P-34-5534 P-34-5535 |
| Known reports within project area:                      | None  |
| Known reports outside project area, within radius:      | See list below  |

- Resource Database Printout (list):**  enclosed  not requested  nothing listed/NA
- Resource Database Printout (details):**  enclosed  not requested  nothing listed/NA
- Resource Digital Database Records:**  enclosed  not requested  nothing listed/NA
- Report Database Printout (list):**  enclosed  not requested  nothing listed/NA
- Report Database Printout (details):**  enclosed  not requested  nothing listed/NA
- Report Digital Database Records:**  enclosed  not requested  nothing listed/NA
- Resource Record Copies:**  enclosed  not requested  nothing listed/NA
- Report Copies:**  enclosed  not requested  nothing listed/NA
- Built Environment Resources Directory:**  enclosed  not requested  nothing listed/NA
- Archaeological Resources Directory:**  enclosed  not requested  nothing listed/NA
- CA Inventory of Historic Resources (1976):**  enclosed  not requested  nothing listed/NA

**Caltrans Bridge Survey:**  enclosed  not requested  nothing listed/NA

**Ethnographic Information:**  enclosed  not requested  nothing listed/NA

**Historical Literature:**  enclosed  not requested  nothing listed/NA

**Historical Maps:**  enclosed  not requested  nothing listed/NA

**Local Inventories:**  enclosed  not requested  nothing listed/NA

**GLO and/or Rancho Plat Maps:**  enclosed  not requested  nothing listed/NA

**Shipwreck Inventory:**  enclosed  not requested  nothing listed/NA

**Soil Survey Maps:**  enclosed  not requested  nothing listed/NA

Please forward a copy of any resulting reports and resource records from this project to NCIC as soon as possible. The lead agency/authority and cultural resources consultant should coordinate sending documentation to NCIC. Digital materials are preferred and can be sent to our office via our file transfer system. Please contact NCIC for instructions. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

The provision of CHRIS Data via this records search response does not in any way constitute public disclosure of records otherwise exempt from disclosure under the California Public Records Act or any other law, including, but not limited to, records related to archeological site information maintained by or on behalf of, or in the possession of, the State of California, Department of Parks and Recreation, State Historic Preservation Officer, Office of Historic Preservation, or the State Historical Resources Commission.

Due to processing delays and other factors, it is possible that not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the California Historical Resources Information System (CHRIS) Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

Should you require any additional information for the above referenced project, reference the records search number listed above when making inquiries. Requests made after initial invoicing will result in the preparation of a separate invoice.

Sincerely,

Paul Rendes, Coordinator  
North Central Information Center

Known reports outside project area, within radius:

000176  
000513  
001748  
001755  
002768  
002787  
003441  
003443  
004197  
004405  
006452  
006661  
008966  
009423  
011154  
011157  
011833  
013135  
013870

## Resource List

| Primary No. | Trinomial      | Other IDs   | Type            | Age      | Attribute codes | Recorded by  | Reports  |
|-------------|----------------|---|-----------------|----------|-----------------|--|--|
| P-34-000522 | CA-SAC-000495H | Resource Name - Arcade Creek Levee;<br>Other - AMR-17;<br>Other - Arcade Creek Levees   | Structure, Site | Historic | HP11            | 1994 (M. Hale, Dames & Moore);<br>2001 (Ric Windmiller, Consulting Archaeologist);<br>2014 (Patricia Ambacher, AECOM)  | 004197, 006452, 013135   |
| P-34-000638 |                | Resource Name - Faith Tabernacle & Pentacostal Church of God;<br>Other - CA-1534A   | Building        | Historic | HP16            | 2001 (Lorna Billat, EarthTouch, LLC)   | 002787, 013870   |
| P-34-000746 | CA-SAC-000571H | Other - Northern Electric Railroad;<br>Other - Sacramento Northern Railroad Embankment;<br>Other - Sacramento Northern Electric Railroad;<br>Resource Name - Northern Electric Co.;<br>Other - Staging Areas G, P, Q, KK;<br>Other - Site 1;<br>Other - Sacramento Northern Railroad;<br>Other - SVS-4;<br>Other - WAPA 15;<br>Other - WAPA 7;<br>Other - WAPA 9;<br>Other - 37-H, 43-H | Structure, Site | Historic | AH07            | 1993 (Eleanor H. Derr, Paula Boghosian, Cultural Resources Unlimited(Derr), Historic Environment Consultants(Boghosian));<br>1994 (Robert Gerry, Peak and Associates, Inc.);<br>1995 (Eleanor H. Derr, Cultural Resources Unlimited);<br>1997 (R. Windmiller, D. Osanna, Consulting Archaeologists);<br>2001 (Rand Herbert, Amanda Blosser, JRP);<br>2002 (M. Schmidt, L. Compas, PAR Environmental Services, Inc.);<br>2002 (Amanda Blosser, Andy Walters, JRP);<br>2006 (Will Shapiro, Brandon Moya, Scott Davis, Marlene Calicher, Pacific Legacy, Inc.);<br>2010 (Scott Baxter, Past Forward, Inc) | 003400, 003490, 004463, 004464, 004465, 004466, 006395, 007130, 009188, 010715, 011447, 013803 |
| P-34-005019 |                | Resource Name - T-Mobile West LLC SC06951A/Marysville & Arcade  | Structure       | Historic | HP11            | 2012 (K.A Crawford, Crawford Historic Services)  | 011154, 011157, 011833   |
| P-34-005512 |                | Resource Name - 800 Nogales Street, Sacramento;<br>Agency Nbr - HUD030312J  | Building        | Historic | HP02            | 2003 (Gail Ervin, Gail Ervin Consulting)   |  |
| P-34-005513 |                | Resource Name - 805 Nogales Street, Sacramento, CA 95832;<br>Agency Nbr - HUD050509M;<br>OHP Property Number - 154162   | Building        | Historic | HP02            | 2004 (Gail Ervin, Gail Ervin Consulting)   |  |

# Resource List

| Primary No. | Trinomial | Other IDs  | Type     | Age      | Attribute codes | Recorded by  | Reports |
|-------------|-----------|--|----------|----------|-----------------|--|---------|
| P-34-005534 |           | Resource Name - 2830 Rio Linda Blvd;<br>Agency Nbr - HUD110901E                                | Building | Historic | HP02            | 2011 (Jason Achermann, Community Resource Project Inc.)  |         |
| P-34-005535 |           | Resource Name - 2850 Altos Avenue;<br>Agency Nbr - HUD090824P;<br>OHP Property Number - 176676 | Building | Historic | HP06            | 2009 (Paula Boghosian, Historic Environment Consultants) |         |

## Report List

| Report No. | Other IDs | Year | Author(s)  | Title   | Affiliation  | Resources   |
|------------|-----------|------|--|---|--|---|
| 000176     |           | 1978 | Dondero, Steven  | An Archeological Reconnaissance of Sewer Alignments for the Natomas Interceptor System, Sacramento, California.                               | Archeological Study Center, Dept of Anthropology, CSU Sacramento | 34-000053, 34-000058, 34-000059, 34-000066, 34-000307, 34-000333, 34-000343   |
| 000513     |           | 1980 | Noble, Daryl   | An Archeological Survey of a Portion of Rio Linda Boulevard, Sacramento County, California.   |  |   |
| 001748     |           | 1997 | Derr, E, and P. Boghosian  | Del Paso Nuevo: Cultural Resources Report.  |  |   |
| 001755     |           | 1990 | Robert Gerry   | Cultural Resources Assessment of Four Bank Protection Projects on Arcade Creek and Magpie Creek, Sacramento County,                           | Peak & Associates  |   |
| 002768     |           | 2001 | Peak, Melinda  | Cultural Resource Assessment of SUMP 159 Reconstruction Project, City of Sacramento   | Peak & Associates, Inc.  |   |
| 002768A    |           | 2002 | Dr. Knox Mellon and Michael Jewell   | Sump 159 Reconstruction Project, Sacramento, California (COE020419A)  | OHP; USACE   |   |
| 002787     | Other -   | 2001 | Billat, Lorna  | Nextel Communications Cellular Facility at 2849 Rio Linda Boulevard   | EarthTouch LLC   | 34-000638   |
| 003441     |           | 1992 |  | Cultural Resources Survey of the Sacramento Power Project   | Ebasco Environmental   | 34-000743, 34-000744, 34-000745   |
| 003443     |           | 1974 | Peak, Ann S.   | Archeological Assessment of the Sacramento City Filtration System Expansion   | Consulting Archaeologist   |   |
| 004197     |           | 1994 | E. Nilsson, J. Johnson, M.S. Kelly, R. Bevill, A. Huberland, M. Hale, M.E. Scully, and Ken Mclvers | Archaeological Inventory Report - Natomas Locality Cultural Resources Inventory and Evaluation for the American River Watershed Investigation | Dames & Moore, Inc., Chico, CA                                   | 34-000042, 34-000043, 34-000045, 34-000187, 34-000191, 34-000449, 34-000490, 34-000491, 34-000510, 34-000511, 34-000512, 34-000513, 34-000514, 34-000515, 34-000516, 34-000517, 34-000518, 34-000519, 34-000520, 34-000521, 34-000522 |
| 004405     |           | 2001 | Billat, Lorna  | Historical Resource Reconnaissance of a Proposed Nextel Communications Wireless Telecommunications Service Facility 2849 Rio Linda Blvd.      | EarthTouch, LLC  |   |
| 006452     |           | 2002 | Windmiller, Ric  | Historic Property Survey Report and Finding of Effect for Ueda Parkway project  |  | 34-000490, 34-000491, 34-000522, 34-000640, 34-000641, 34-000642, 34-000643, 34-000644, 34-000645, 34-000646, 34-000647, 34-001436, 34-005505, 34-005506  |
| 006452B    |           | 2001 | Ric Windmiller   | Archaeological Survey Report and Historic Study Report UEDA Parkway Project, Sacramento   |  |   |

## Report List

| Report No. | Other IDs | Year | Author(s)                             | Title  | Affiliation                          | Resources                       |
|------------|-----------|------|---------------------------------------|--|--------------------------------------|---------------------------------|
| 006452C    |           | 2001 | Donald S. Napoli                      | Bridge Evaluation Report UEDA Parkway Project, Sacramento County, California   |                                      |                                 |
| 006452D    |           | 2001 | Donald Napoli                         | Historic Architectural Survey Report, UEDA Parkway Project   |                                      |                                 |
| 006452E    |           | 2002 | Andrew Hope                           | Supplement to the Historic Property Survey Report for the UEDA Parkway bike trail project  | Caltrans                             |                                 |
| 006452F    |           | 2002 | Dr. Knox Mellon and Michael Ritchie   | UEDA Parkway Bike Trail (FHWA020425C)  | OHP; Federal Highway Administration  |                                 |
| 006661     |           | 2005 | Steckling, Monica                     | Cultural Resources Survey Report, Del Paso Nuevo Phase V Project, City of Sacramento   |                                      |                                 |
| 008966     |           | 2007 |                                       | Cultural Resources Report for Geotechnical Evaluations Along the Natomas East Main Drainage Canal  | URS                                  |                                 |
| 009423     |           | 2008 | Joanne S. Grant                       | Cultural Resources Survey for the Urban Levee Project  | URS                                  |                                 |
| 011154     |           | 2012 | Carrie Wills                          | Cultural Resources Records Search and Site Visit Results for T-Mobile West, LLC Candidate SC06951A (Marysville & Arcade), 3175 Callecita Street, Sacramento, Sacramento County, California | Michael Brandman Associates          | 34-005019                       |
| 011157     |           | 2012 | Kathleen Crawford                     | Direct APE Historic Architectural Assessment for the T-Mobile West, LLC Candidate SC06951A (Marysville & Arcade), 3175 Callecita Street, Sacramento County, California                     | Michael Brandman Associates          | 34-004515, 34-005019            |
| 011833     |           | 2015 | Carrie D. Wills and Kathleen Crawford | SC06951A (Marysville & Arcade)   | Environmental Assessment Specialists | 34-005019                       |
| 013135     |           | 2016 | Barry Scott                           | Cultural Resources Inventory and Evaluation Report, North Sacramento Streams Levee Improvements Project  | GEI Consultants, Inc.; AECOM         | 34-000491, 34-000522, 34-005397 |
| 013870     |           | 2001 | Lorna Billat                          | Nextel Wireless Telecommunications Facility, CA-1534A/Richardson - FCC010619H  | EarthTouch LLC                       | 34-000638                       |



# Structure Maintenance & Investigations



March 2019

## Historical Significance - Local Agency Bridges

### District 03

#### Sacramento County

| Bridge Number | Bridge Name                   | Location                  | Historical Significance         | Year Built |
|---------------|-------------------------------|---------------------------|---------------------------------|------------|
| 24C0085       | CRIPPLE CREEK                 | 0.1 MI N ANTELOPE RD      | 5. Bridge not eligible for NRHP | 1965       |
| 24C0089       | AMERICAN RIVER (WATT AVE)     | 0.6 MI N OF S.R. 50       | 5. Bridge not eligible for NRHP | 1961       |
| 24C0090       | AMERICAN RIVER DRIVE UC       | AMERICAN RIVER DR         | 5. Bridge not eligible for NRHP | 1960       |
| 24C0091       | UNION HOUSE CREEK             | 0.3 MI S OF MACK RD       | 5. Bridge not eligible for NRHP | 1924       |
| 24C0092       | ELDER CREEK                   | 0.1 MI S OF GERBER RD     | 5. Bridge not eligible for NRHP | 1924       |
| 24C0093       | ELDER CREEK                   | 0.3 MI N OF MACK RD       | 5. Bridge not eligible for NRHP | 1958       |
| 24C0094       | SOUTH BRANCH FLORIN CREEK     | 50' S OF ORANGE AVE       | 5. Bridge not eligible for NRHP | 1924       |
| 24C0095       | FLORIN CREEK                  | 50' N OF ORANGE AVE       | 5. Bridge not eligible for NRHP | 1924       |
| 24C0096       | MORRISON CREEK TRIBUTARY      | 0.1 MI S OF FOWLER AVE    | 5. Bridge not eligible for NRHP | 1924       |
| 24C0097       | MORRISON CREEK                | 0.1 MI N OF FOWLER AVE    | 5. Bridge not eligible for NRHP | 1924       |
| 24C0099       | NATOMAS EAST MAIN DRAIN CANAL | 0.1 MI S OF GARDEN HWY    | 5. Bridge not eligible for NRHP | 1970       |
| 24C0100       | AMERICAN RIVER (HAZEL AVENUE) | 0.5 MI N OF S.R. 50       | 5. Bridge not eligible for NRHP | 1966       |
| 24C0105       | EAST DRAINAGE CANAL           | 1.8 MI E OF SR 99         | 5. Bridge not eligible for NRHP | 1968       |
| 24C0106       | NATOMAS EAST MAIN DRAIN CANAL | 1.6 MI W RIO LINDA BLVD   | 5. Bridge not eligible for NRHP | 1968       |
| 24C0107L      | AMERICAN RIVER (HOWE AVE)     | 0.4 MI N/O SR 50          | 5. Bridge not eligible for NRHP | 1969       |
| 24C0107R      | AMERICAN RIVER (HOWE AVE)     | 0.4 MI N/O SR 50          | 5. Bridge not eligible for NRHP | 1969       |
| 24C0108       | K STREET MALL-DOWNTOWN PLAZA  | 5TH AND K STS             | 5. Bridge not eligible for NRHP | 1963       |
| 24C0112       | MARCONI AVENUE OH             | 0.2 MI W OF SR 51         | 5. Bridge not eligible for NRHP | 1984       |
| 24C0113       | MORRISON CREEK                | 0.3 MI S OF FLORIN RD     | 5. Bridge not eligible for NRHP | 1955       |
| 24C0114       | NORTH FORK ELDER CREEK        | 0.5 MI NORTH OF MACK RD   | 5. Bridge not eligible for NRHP | 1987       |
| 24C0116       | LAGUNA CREEK                  | 0.1 MI S OF CALVINE ROAD  | 5. Bridge not eligible for NRHP | 1992       |
| 24C0118       | MORRISON CREEK                | 0.5 MI N OF ELDER CREEK   | 5. Bridge not eligible for NRHP | 1972       |
| 24C0121       | MORRISON CREEK                | 0.3 MI W OF FRANKLIN BLVD | 5. Bridge not eligible for NRHP | 1977       |
| 24C0122       | DOUGLAS DRAIN                 | 2.1 MI W/O RTE 5          | 5. Bridge not eligible for NRHP | 1974       |
| 24C0124L      | EAST DRAINAGE CANAL           | 0.24mi e/o Truxel Rd.     | 5. Bridge not eligible for NRHP | 1960       |
| 24C0124R      | EAST DRAINAGE CANAL           | 0.24mi e/o Truxel Rd.     | 5. Bridge not eligible for NRHP | 1986       |
| 24C0126       | ARCADE CREEK                  | 0.1 MI N OF HUDSON WAY    | 5. Bridge not eligible for NRHP | 1994       |
| 24C0127       | HAGGINWOOD CREEK              | AT ACACIA AVE             | 5. Bridge not eligible for NRHP | 1940       |
| 24C0128       | ARCADE CREEK                  | 0.1 MI N ARCADE BLVD      | 5. Bridge not eligible for NRHP | 1989       |
| 24C0129       | MAGPIE CREEK                  | 0.92 MI N. OF FAI 880     | 5. Bridge not eligible for NRHP | 1937       |
| 24C0132       | EAST DRAINAGE CANAL           | 0.1 MI E AIRPORT RD       | 5. Bridge not eligible for NRHP | 1965       |
| 24C0133       | SILVER EAGLE ROAD BOH         | BTWN NORTHGATE & NORWOOD  | 5. Bridge not eligible for NRHP | 1984       |
| 24C0135       | MAGPIE CREEK                  | 0.1 MI E OF NORWOOD AVE   | 5. Bridge not eligible for NRHP | 1941       |
| 24C0136       | RIO LINDA CREEK               | 1.8 MI N OF I-80          | 5. Bridge not eligible for NRHP | 1990       |
| 24C0142L      | LA RIVIERA DRIVE UC           | 0.25 MI N/O US HWY 50     | 5. Bridge not eligible for NRHP | 1969       |
| 24C0142R      | LA RIVIERA DRIVE UC           | 0.25 MI N/O US HWY 50     | 5. Bridge not eligible for NRHP | 1969       |
| 24C0143L      | UNIVERSITY AVENUE UC          | 0.6 MI N/O SR. 50         | 5. Bridge not eligible for NRHP | 1969       |
| 24C0143R      | UNIVERSITY AVENUE UC          | 0.6 MI N/O SR. 50         | 5. Bridge not eligible for NRHP | 1969       |
| 24C0144       | ELKHORN BLVD OVERHEAD         | AT ROSEVILLE RD           | 5. Bridge not eligible for NRHP | 1970       |
| 24C0145       | THIRD STREET PUC              | K ST PD PATH UNDER 3RD ST | 5. Bridge not eligible for NRHP | 1968       |
| 24C0149       | AIR BASE DRIVE OH             | AT ROSEVILLE RD           | 5. Bridge not eligible for NRHP | 1973       |
| 24C0150       | WATT AVENUE POC               | .05 MI N. OF POPLAR BLVD  | 5. Bridge not eligible for NRHP | 1974       |
| 24C0151       | DRAINAGE DITCH                | 50' N LAMBERT RD          | 5. Bridge not eligible for NRHP | 1925       |



# Structure Maintenance & Investigations



March 2019

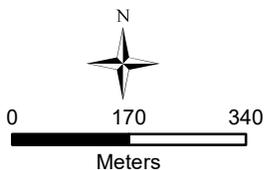
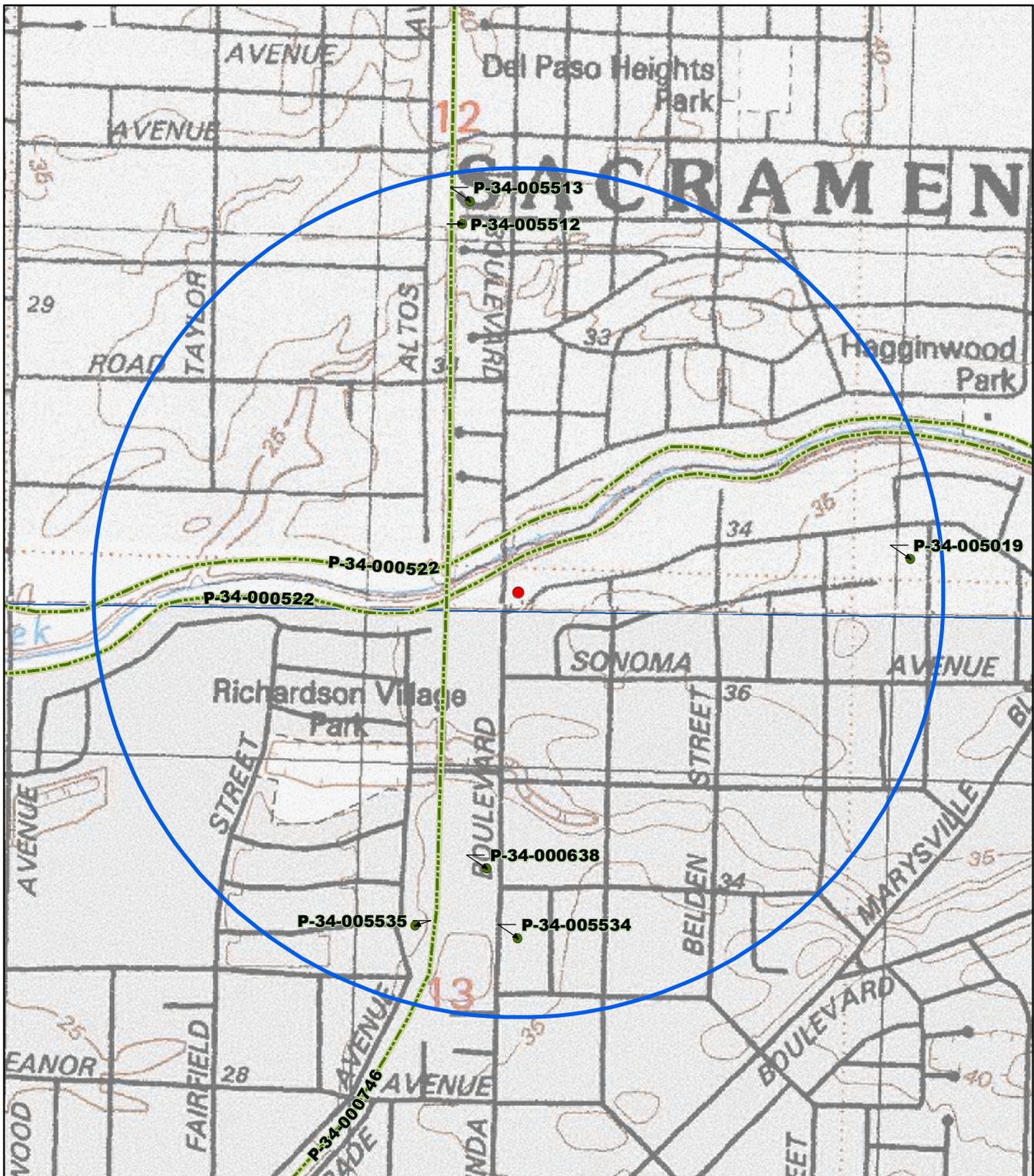
## Historical Significance - Local Agency Bridges

### District 03

#### Sacramento County

| Bridge Number | Bridge Name                | Location                  | Historical Significance                   | Year Built |
|---------------|----------------------------|---------------------------|---|------------|
| 24C0208       | BRANCH ARCADE CREEK        | 100' W FAIR OAKS BLVD     | 5. Bridge not eligible for NRHP           | 1935 1974  |
| 24C0209       | ANDERSON DRAIN             | 100' W/O 21ST ST          | 5. Bridge not eligible for NRHP           | 1960       |
| 24C0212       | ANDERSON DRAIN             | 0.1 MI E/O WOODBINE       | 5. Bridge not eligible for NRHP           | 1960       |
| 24C0213       | FOLSOM SOUTH CANAL         | 0.1 MI N TAVERNOR RD      | 5. Bridge not eligible for NRHP           | 1971       |
| 24C0214       | FOLSOM SOUTH CANAL MP 11.7 | 0.1 MI W OF SUNRISE BLVD  | 5. Bridge not eligible for NRHP           | 1970       |
| 24C0215       | LAGUNA CREEK               | 0.4 MI W SUNRISE BLVD     | 5. Bridge not eligible for NRHP           | 1972       |
| 24C0216       | ARCADE CREEK               | 0.4 MI N GREENBACK LANE   | 5. Bridge not eligible for NRHP           | 1960       |
| 24C0217       | NATOMAS EAST MAIN DRAIN    | 1.1 MI W RIO LINDA BLVD   | 5. Bridge not eligible for NRHP           | 1976       |
| 24C0218       | EAST DRAINAGE CANAL        | 2.5 MI W/O RIO LINDA BLVD | 5. Bridge not eligible for NRHP           | 1974       |
| 24C0219L      | ELDER CREEK                | 0.1 MI N OF MACK RD       | 5. Bridge not eligible for NRHP           | 1960       |
| 24C0219R      | ELDER CREEK                | 0.1 MI N OF MACK RD       | 5. Bridge not eligible for NRHP           | 1978       |
| 24C0221       | CHICKEN RANCH SLOUGH       | 0.2 MI S WHITNEY AVE      | 5. Bridge not eligible for NRHP           | 1976       |
| 24C0222       | MORRISON CREEK             | 0.1 MI N ALDER AVE        | 5. Bridge not eligible for NRHP           | 1979       |
| 24C0223       | MAGPIE CREEK DIVERSION     | 0.1 MI S OF ASCOT AVE     | 5. Bridge not eligible for NRHP           | 1970       |
| 24C0224       | MAGPIE CREEK DIVERSION     | 0.4 MI E OF DRY CR RD     | 5. Bridge not eligible for NRHP           | 1970       |
| 24C0225       | MAGPIE DRAIN               | N/O RTE 80                | 5. Bridge not eligible for NRHP           | 1970       |
| 24C0226       | HAGGINWOOD CREEK           | 100' E RIO LINDA BLVD     | 5. Bridge not eligible for NRHP           | 1965       |
| 24C0227       | HAGGINWOOD CREEK           | 0.05mi n/o Alamos Ave     | 5. Bridge not eligible for NRHP           | 1964       |
| 24C0228       | HAGGINWOOD CREEK           | 0.05 mi n/o Alamos Ave.   | 5. Bridge not eligible for NRHP           | 1964       |
| 24C0229       | HAGGINWOOD CREEK           | BETWEEN ACACIA & ALAMOS   | 5. Bridge not eligible for NRHP           | 1964       |
| 24C0231       | WALLERGA ROAD OH           | OVER ROSEVILLE RD         | 5. Bridge not eligible for NRHP           | 1968       |
| 24C0235       | FOLSOM BLVD UP             | 0.2 MI E OF 65TH ST       | 4. Historical Significance not determined | 1928       |
| 24C0236       | CREVIS CREEK               | 0.05 MI N LATROBE RD      | 5. Bridge not eligible for NRHP           | 1979       |
| 24C0238       | CARSON CREEK               | 3.7 MI N LATROBE RD       | 5. Bridge not eligible for NRHP           | 1979       |
| 24C0239       | COYOTE CREEK               | 5.7 MI N LATROBE RD       | 5. Bridge not eligible for NRHP           | 1979       |
| 24C0243       | LAGUNA CREEK               | 100 YD SOUTH S.R. 16      | 5. Bridge not eligible for NRHP           | 1967       |
| 24C0244       | FOLSOM SOUTH CANAL         | 0.8 MI S OF US 50         | 5. Bridge not eligible for NRHP           | 1971       |
| 24C0245       | MORRISON CREEK             | BTWN 65TH ST AND STKTN BL | 5. Bridge not eligible for NRHP           | 1965       |
| 24C0247       | NORTH CHANNEL DRY CREEK    | 0.2 MI W DRY CR RD        | 5. Bridge not eligible for NRHP           | 1925       |
| 24C0248       | EAST BRANCH LAGUNA CREEK   | 0.4 MI N SHELDON RD       | 5. Bridge not eligible for NRHP           | 1986       |
| 24C0249       | BADGER CREEK               | 0.8 MI W COLONY RD        | 5. Bridge not eligible for NRHP           | 1981       |
| 24C0250       | BUCKEYE CREEK              | 0.2 MI S OF MEISS RD      | 5. Bridge not eligible for NRHP           | 1950       |
| 24C0252       | MORRISON CREEK             | .6 MI W/O FRANKLIN BLVD   | 5. Bridge not eligible for NRHP           | 1982       |
| 24C0253       | ARCADE CREEK               | 0.25 MI N ARCADE BLVD     | 5. Bridge not eligible for NRHP           | 1967       |
| 24C0254       | ARCADE CREEK               | 0.1 MI S DEL PASO BL      | 5. Bridge not eligible for NRHP           | 1968       |
| 24C0256       | LAGUNA CREEK               | 0.3 MI W GRANT LINE RD    | 5. Bridge not eligible for NRHP           | 1990       |
| 24C0258       | LAGUNA CREEK               | 0.9 MI SOUTH OF ARNO RD.  | 5. Bridge not eligible for NRHP           | 1950       |
| 24C0259       | SKUNK CREEK                | 0.8 MI N SIMMERHORN RD    | 5. Bridge not eligible for NRHP           | 1987       |
| 24C0260       | SKUNK CREEK                | 1 MI N TWIN CITIES RD     | 5. Bridge not eligible for NRHP           | 1990       |
| 24C0261       | PASTURE CREEK              | 0.9 MI S DILLARD RD       | 5. Bridge not eligible for NRHP           | 1981       |
| 24C0263       | DEADMAN GULCH              | 0.9 MI S TWIN CITIES RD   | 5. Bridge not eligible for NRHP           | 1986       |
| 24C0264       | LINDA CREEK                | .3 MI N GOLDEN GATE AV    | 5. Bridge not eligible for NRHP           | 1986       |
| 24C0265       | RIO LINDA CREEK            | 0.1 MI N OF E ST          | 5. Bridge not eligible for NRHP           | 1986       |

# CEQA IS Sarita Prasad Sacramento, CA



North Central Information Center  
Records Search Results

Rio Linda 7.5' Quadrangle

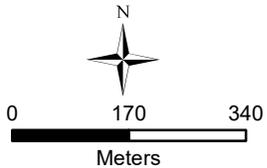
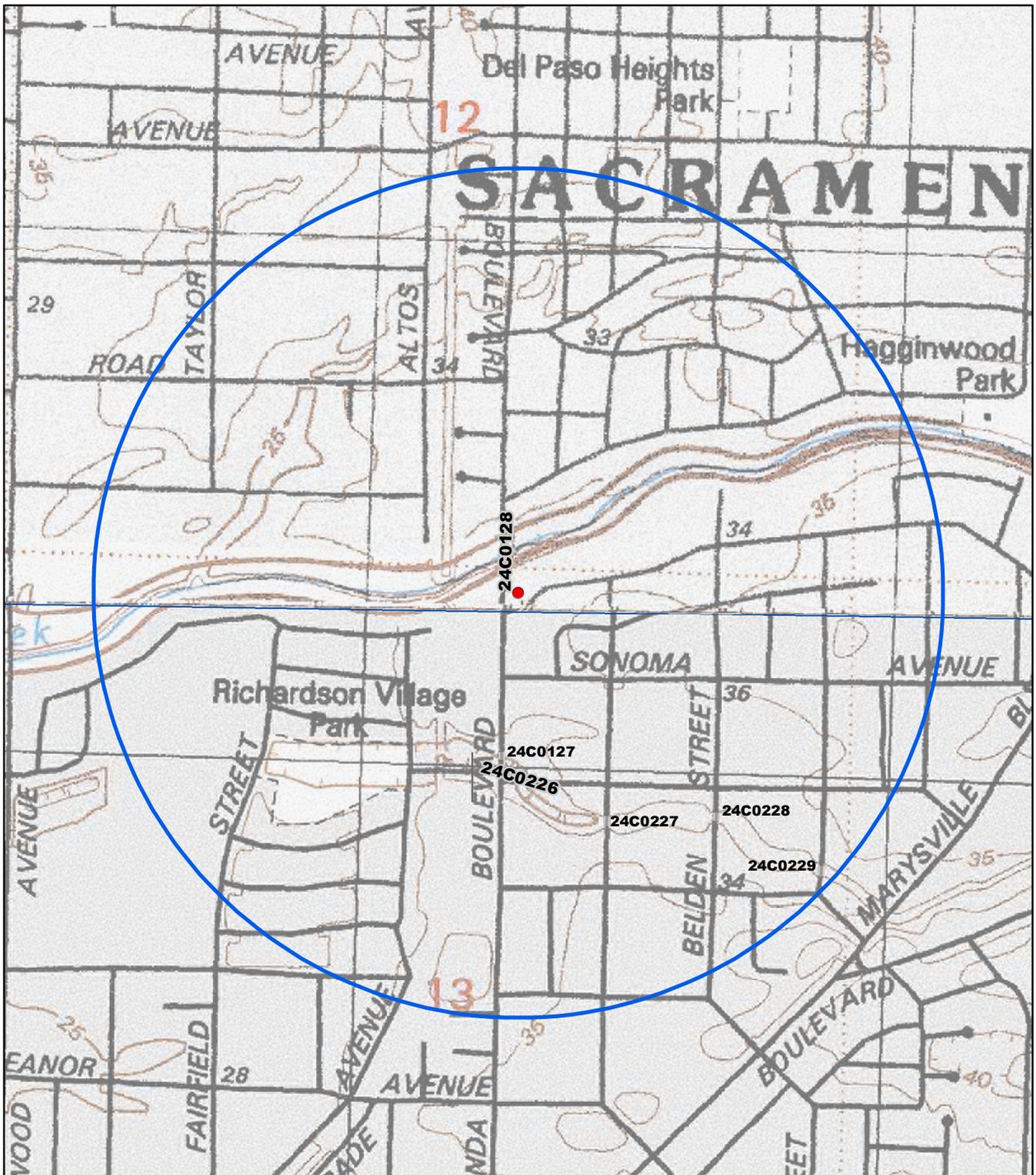
May depict confidential cultural resource locations.  
Do not redistribute.

Findings:

8 resources  
19 survey reports



# CEQA IS Sarita Prasad Sacramento, CA



North Central Information Center  
Records Search Results

Rio Linda 7.5' Quadrangle

May depict confidential cultural resource locations.  
Do not redistribute.

Findings:

Caltrans Local Bridges

## PHASE I ENVIRONMENTAL SITE ASSESSMENT



**Former Fuel Stop Gasoline Station**  
3200 Rio Linda Blvd  
Sacramento, CA 95815

Prepared for:  
Sarita Prasad

Prepared by:



**SOAR ENVIRONMENTAL CONSULTING**  
1322 East Shaw Ave., Suite 400  
Fresno, CA 93710

April 2023



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## Acronyms

|                 |  |
|-----------------|--|
| CA Cortese      | The Hazardous Waste and Substances Sites                         |
| CA ENVIROSTOR   | DTSC Mitigation and Brownfields Reuse database                   |
| CA HIST Cortese | Historical “Cortese” Hazardous Waste & Substances Sites List     |
| CA HWTS         | Hazardous Waste Tracking System                                  |
| CA RESPONSE     | Confirmed release sites where DTSC is involved in remediation CA |
| EDR Hist Auto   | Exclusive Historical Auto Stations Database                      |
| WMUDS/SWAT      | Waste Management Unit Database System                            |



**Corporate Headquarters**  
1322 E. Shaw Avenue, Suite 400 Fresno, CA, 93710  
www.soarhere.com • 559.547.8884

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|                 |   |
|-----------------|---|
| CERS            | California Environmental Reporting System |
| FUDS            | Formerly Used Defense Sites               |
| REC             | Recognized Environmental Condition        |
| RCRA            | Resource Conservation and Recovery Act    |
| RCRA NonGen/NLR | RCRA non generators                       |
| RCRA-SQG        | RCRA small quantity generator             |
| WI SWRCY        | A listing of recycling center locations   |



## **Executive Summary**

Soar Environmental Consulting, Inc. has performed a Phase I Environmental Site Assessment in general conformance with the scope and limitation of the American Society for Testing and Materials Standard Practice for Preliminary Site Assessments E 1527-13, on the Subject Property located at 3200 Rio Linda Boulevard, in Sacramento, California, 95815. The Subject Property is a former gasoline and auto repair station with an attached office and two repair bays. The former service station is presently vacant and in a state of disrepair. The Subject Property had been a gasoline station since at least 1957. In 2006, the Regional Water Quality Control Board opened a case after an investigation revealed that gasoline constituents had been released to the environment. As the financially responsible party, the former owner performed various remediation efforts to remediate soil and groundwater beneath the Site. In November 2022, the Regional Water Quality Control Board certified the Site as remediated. The Subject Property is now being considered to be rehabilitated and reopened. The purpose of this Phase I Environmental Site Assessment is to provide environmental information for the potential rehabilitation of the property. The report shall identify potential Recognizable Environmental Concerns onsite to satisfy the environmental review required by 24 CFR 58.5(i)(2). During the Phase I Environmental Site Assessment, Soar Environmental Consulting did not discover any recognizable environmental concerns requiring further investigation.



## INTRODUCTION

### Purpose

As per Section 1.1 of the American Society of Testing and Materials (ASTM) Standard Practice Designation E 1527-13, the purpose of this assessment is to identify recognized environmental conditions, as defined in Section 3.2.78 of the same Standard Practice; that is "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions." This practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner defense to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA); that is, the practices that constitute "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in 42 USC § 9601(35) (B).

The term "recognized environmental condition (REC)," as defined by ASTM Standard E 1527-21 (ASTM 2021), means:

(1) the presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the Subject Property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the Subject Property under conditions that pose a material threat of a future release to the environment.

A historical REC (HREC) is defined as:

A previous release of hazardous substances or petroleum products affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the Subject Property to any controls (for example, activity and use limitations or other property use limitations). A historically recognized environmental condition is not a recognized environmental condition.

A controlled REC (CREC) is defined as:

A recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by issuance of a No Further Action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

De minimis Conditions (DMCs) is defined as:

A recognized environmental condition affecting the Subject Property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations).

Soar Environmental Consulting, Inc. (Soar Environmental) conducted this Phase I Environmental Site Assessment (ESA) under the direction of an environmental professional, as defined by ASTM Standard Practices



§3.2.32 and 40 CFR §312.10(b), whose signature appears hereon. This document serves to identify Recognized Environmental Concerns (RECs) in association with the Subject Property.

This assessment is based on a review of existing conditions, reported pre-existing conditions, and observed operations at the Subject Property and adjacent properties.

### **Detailed Scope of Services**

Soar Environmental conducted the Phase 1 ESA in general accordance with ASTM Standard E 1527-13 and included the following:

- Review of previous environmental site assessments.
- Records review.
- Interviews with regulatory officials and personnel associated with the subject and adjoining properties.
- Onsite reconnaissance.
- Evaluation of information and preparation of the Report provided herein.

Typically, a Phase I ESA does not include sampling or testing of air, soil, groundwater, surface water, or building materials. These activities would be carried out in a Phase II ESA, if required. For this Phase I ESA, no additions to the ASTM E 1527-13 standard were made.

### **Significant Assumptions**

Soar Environmental believes the results, specifications, conclusions, and professional opinions to be accurate and relevant but cannot accept responsibility for the accuracy or completeness of public documentation or accuracy, completeness, or possible withholding of information by interviewees or other private parties. We make no other warranty, either expressed or implied.

It is assumed that this investigation is being conducted to identify RECs concerning the Subject Property, and to permit the user to satisfy one, or more, of the requirements to qualify for the innocent landowner defense to CERCLA liability. This investigation may mention but does not fully address out of scope considerations such as:

Asbestos  
Radon  
Lead based paint  
Lead in drinking water  
Wetlands  
Regulatory compliance  
Cultural and historic resources  
Health and safety  
Ecological resources  
Endangered species  
Air quality  
Water quality

This property assessment did not include air, soil or water sampling, or laboratory analysis. Therefore, the results of this investigation do not preclude the presence of substances presently, or in the future, being defined as hazardous and existing on the Subject Property. This report does not purport to address all safety problems, if any, associated with the Subject Property.



## **Limitations, Exceptions, and Data Gaps**

The scope of services performed to complete this Phase I ESA is limited in nature. Site conditions can vary with time; therefore, this assessment is not intended to predict future site conditions. Because of the nature of this assessment, site history has been developed based solely upon information provided by Sarita Prasad, through the interview process, or during the review of available regulatory files on this, and nearby sites. This report is not a complete risk assessment, and the scope of services does not include a complete determination of the extent of, nor the environmental or public health impact of, known or suspected hazardous materials or wastes.

Along with the limitations set forth in various sections of ASTM E 1527-13, the accuracy and completeness of this report may be limited by the following:

### Access Limitations

- Physical Obstructions to Observations
- Outstanding Information Requests
- Historical Data Source Failure
- Other

The information presented in this report was provided through existing documents and interviews, which requires the assumption that the information provided is accurate.

The information and conclusions contained in this report are based upon work performed by a trained professional and technical staff in accordance with generally accepted engineering and scientific practices at the time the work was performed. The conclusions and recommendations presented herein represent the best judgment of Soar Environmental staff and are based upon the information obtained from field reconnaissance and data review. Due to the nature of this investigation, Soar Environmental cannot warrant undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be construed as legal advice.

Should additional information become available that differs significantly from our understanding of conditions presented in this report, we request that this information be brought to our attention so that we may reassess the conclusions provided herein.

Based on information obtained during the interview process and general knowledge of the history of this vicinity of Fresno County, it is the opinion of Soar Environmental that the historical Subject Property uses have been adequately defined.

Aside from the limitation(s) listed above, it is the opinion of Soar Environmental staff, that this Phase I ESA provides an appropriate degree of inquiry to determine if RECs exist on the Subject Property.

## **Special Terms and Conditions**

### **Environmental Personnel**

The following personnel contributed to the Assessment:

- Evan Studley, Project Manager/Geologist - Conducted site reconnaissance, provided supervision of database research, performed interviews, and prepared this Phase I ESA Report.
- Marcus Patton, Environmental Scientist – Performed database research, conducted interviews, performed local file reviews, prepared, and reviewed this report.



## **Site Description**

The Subject Property is legally defined as Sacramento County Assessor's Parcel Number (APN) 251-0292-016. The mailing address for the parcel is 3200 Rio Linda Boulevard (Blvd), Sacramento, CA 95815 (**Appendix A**). The approximately 0.5-acre former auto service station parcel is bound on the north by Arcade Creek, an ephemeral stream; on the South by Arcade Blvd; to the West by Rio Linda Blvd, and by single family residential homes to the east.

Electricity and gas are provided to the Subject Property via subsurface connections. It appears that sewer and water are provided by the City of Sacramento. There are no storm drain inlets within the Property boundaries, however, a storm drain inlet is present along Arcade Blvd. Arcade Blvd and Rio Linda Blvd have curbs and gutters to convey stormwater.

The Subject Property is separated from Arcade Creek by a 10-foot-tall levee and 15-foot-wide dirt levee road along the top of the southern stream bank. There is an 8-foot-tall earthen bank leading up to Rio Linda Blvd. The majority of the Subject Property is covered with cracked and patched asphalt. Cracked concrete is present surrounding the two fuel dispensers, the underground storage tanks and associated fill ports, and beneath the metal canopy. One monitoring well vault, a water main vault, and underground storage tank filling ports, are present within the cracked concrete. Numerous concrete patches are present within the cracked asphalt and concrete, possibly derived from previous onsite subsurface investigations. The metal-siding clad main building has been boarded up for the past two years. Vandals have removed all electrical wiring from the fuel dispensers and exterior of the building and canopy. Bay doors are boarded up, however, there is an opening in the metal siding at the rear of the main building which provides crawl space access for trespassers. Windows in the front are protected by wrought iron bars.

A chain-link fence along the eastern and northern parcel boundaries is damaged and provides access to the rear of the building. A portion of the southeastern fence is wrought iron. Trash, clothes, and dirty blankets are present throughout the Subject Property. Weeds are growing in asphalt and concrete cracks, and on the slopes up to Rio Linda Blvd and Arcade Creek. Paint is chipping from the canopy and main building structure. 55-gallon metal drums are present inside the main building. It is unknown if the drums are full, partially full, or empty. However, clothes and a pry bar were present on one of the drums during the April 4, 2023 Site reconnaissance. There is an air tank present near the exterior northeastern corner of the main building along with various pipes and conduits. A swamp cooler is attached to the rear of the main building.

## **Site and Vicinity Description**

Arcade Creek lies north of the Subject Property and conveys water to the Sacramento River. The approximately 16-mile-long Arcade Creek is surrounded by commercial and residential structures along the majority of its reach, and has been influenced by water quality issues, including moderate flooding due to runoff, street drainage, and overflow, which negatively impacts stream habitat conditions. West of the Site is Rio Linda Blvd, Sacramento Northern Railroad, and residential homes. South of the Site is Arcade Blvd and residential homes. East of the Site are residential homes. The neighborhood is characterized by single family residences, a few apartment buildings, and small retail shops.

All streets in the vicinity have curbs and gutters with storm drain inlets. Electricity is delivered via overhead lines. Across Arcade Blvd, south of the Site is a power pole with transformer with no leaks or surface stains.



## **Current Use of the Property**

The Subject Property formerly dispensed fuel products, tires, and snacks. Presently, there are two fuel dispensers with canopy, two bay doors for auto repair activities, and an office with a door and windows. The Subject Property has been vacant and shows evidence of trespassing and vandalism.

## **Descriptions of Structures, Roads, Other Improvements on Site**

Improvements identified within and surrounding the Subject Property include the following:

Corner exposure;  
Metal siding clad building;  
Two bays for auto repair activities;  
Large air tank at rear of main building;  
Office and retail spaces;  
Elevated electric sign;  
Swamp cooler/air conditioning;  
Cracked asphalt and concrete surfaces;  
Damaged fuel dispensers with shade canopy;  
Outdoor light fixtures;  
Landscaping;  
Concrete swale to convey stormwater;  
Partial fencing;  
Gas and electricity connections;  
Sewer and water connections;  
Sidewalks, curbs, and gutters on roads surrounding Subject Property;

## **Current Uses of the Adjoining Properties**

During the field reconnaissance, Soar Environmental staff observed the following land use on properties in the immediate vicinity of the Subject Property:

- North: Arcade Creek – Ephemeral stream adjacent to Subject Property with levee roads subject to periodic flooding.
- South: Arcade Blvd and residential homes.
- West: Rio Linda Blvd and residential homes.
- East: Residential homes.

## **User Provided Information**

### **Title Records**

No report or record of any environmental liens, activity, and/or use limitations due to hazardous material issues, leases, or miscellaneous instruments were found during this assessment.

### **Environmental Liens or Activity and Use Limitations**

No report or record of any environmental liens, activity, and/or use limitations due to hazardous material issues were discovered or provided by the client.

### **Valuation Reduction for Environmental Issues**

No environmental issues were identified that could result in property value reduction.



### **Owner, Property, and Occupant Information**

No written or verbal communication with the Property owner, representative, and/or tenants, revealed any information which suggest there are present, or historical, recognized environmental conditions associated with the Subject Property.

### **Reasons For Performing Phase I ESA**

The purpose of the Phase I ESA is to provide environmental information for the rehabilitation of the Subject Property. This Phase I ESA has been conducted in conformance with 24 CFR 58. The report shall identify any potential RECs onsite to satisfy the environmental review required by 24 CFR 58.5(i)(2).

### **Environmental Settings**

#### **Physical Setting**

The elevation of the Subject Property ranges from 26 to 30 feet above mean sea level (amsl), as depicted on the 2018 Rio Linda, California, United States Geological Survey (U.S.G.S.) 7.5 Minute Series Topographic Map. The Subject Property's general topography slopes gently towards the southeast.

Sacramento is characterized by a Mediterranean climate with hot summers, cool winters, and moderate precipitation. Temperatures typically vary from 41 F to 94 F and are rarely below 33 F or above 105 F. Most rainfall occurs between October and April. Average rainfall during the rainy season (October to April) is 21.6 inches.

Historically, Arcade Creek was dry in parts of the summer months. For this reason, it is believed that salmonids inhabiting Arcade Creek were reaching the top of their fundamental niche, and with urbanization, eventually were unable to make their way up the Creek. Storm drains discharging to Arcade Creek during winter months cause the Creek to swell and flood. Additionally, the creek holds residential irrigation water overflow during the summer months which causes historically high summer water flows. These intense discharges lead to further erosion, sedimentation, flooding, and channel degradation.

### **Petroleum Products and Hazardous Materials**

During the Site reconnaissance, Soar Environmental did not observe evidence of petroleum product releases or spills, as indicated by stained soil/asphalt, stressed vegetation, or odors.

### **Polychlorinated Biphenyls**

Polychlorinated biphenyls (PCB) containing dielectric fluids have been widely used as coolants and lubricants in transformers, capacitors, and other electric equipment due to their insulating and nonflammable properties.

There is a single power pole with a transformer located south of the Subject Property, across Arcade Blvd. Soar Environmental staff did not observe evidence of a release of PCB oil beneath the transformer, nor additional transformers or power structures proximal to the Subject Property.

### **Aboveground Storage Tanks**

There are no aboveground storage tanks (AST) on the Subject Property.

### **Underground Storage Tanks**

During the Site reconnaissance, Soar Environmental observed circular metal caps and fill ports within surface



concrete which we believe to be associated with underground storage tanks (USTs). We did not observe any staining or odors emanating from the structure. The volume, condition, and design of the UST(s) is unknown. However, the EDR report indicates that a leaking UST was certified as remediated in November 2022.

### **Solid Waste**

During operation, the Subject Property will generate non-hazardous municipal solid waste (trash). Presently, improper disposal activities from trespassers are occurring.

### **Hazardous Waste**

During the Site reconnaissance, Soar Environmental did not observe evidence of hazardous waste generation on the Subject Property.

### **Water**

During the Site reconnaissance, Soar Environmental observed a City of Sacramento water vault to provide water to the Subject Property.

### **Wastewater**

Wastewater generated at the Subject Property is discharged through the City of Sacramento municipal separate storm sewer system (MS4) system.

### **Stormwater**

During the Site reconnaissance, Soar Environmental did not observe exterior onsite drain inlets or outlets. Site stormwater drainage is accomplished via sheetflow to the MS4 drain inlet located in the gutter along Arcade Blvd, immediately south of the Site. The general topographic gradient of the Subject Property is to the southwest. Due to the elevation of the levee associated with Arcade Creek located immediately north of the Subject Property, there is no chance that onsite stormwater can be discharged to the Creek.

### **Heating and Cooling**

During the Site reconnaissance, Soar Environmental observed an evaporative swamp cooler located on the rear wall of the office and retail section. There may be another Swamp cooler or air conditioning unit on the roof but it was difficult to see above the side walls of the metal roof.

### **Subject Property Reconnaissance**

On April 4, 2023, Soar Environmental mobilized to the Subject Property. At the time of the reconnaissance, the weather was clear, approximately 61 F, and soil and asphalt were dry. Upon arrival, we noted a car parked beneath the canopy and the owner repairing his tires. Arcade Creek had water flowing along the northern portion of the active stream channel.

Soar Environmental observed trash, clothing, and blankets within the Subject Property. The perimeter fencing was damaged along the northern section. Soar Environmental noted a crawl space through the metal wall in the rear (east) of the building. It appears that all electrical wiring had been illegally removed from the fuel dispensers and electrical conduit attached to the building. Soar Environmental did not have access to the interior of the building, so the building's interior was inspected from the exterior, where possible. There were at least two 55-gallon drums located in the auto bays, along with personal clothing and a pry bar. It is unknown if any liquid/solid material is present in either of the drums. We observed wires hanging down from the attic area above the office space.



There were no apparent exterior stormwater drains located onsite, however, a storm drain inlet is present south of the Subject Property, within the gutter of Arcade Blvd. Sediment eroded from the slope to Rio Linda Blvd. is present in a concrete swale at the base of the slope. Property asphalt and concrete are cracked and display numerous circular and rectangular patches possibly associated with previous site investigations. Electricity and gas are provided to the Subject Property via subsurface connections, sanitary sewer and stormwater connections are provided by the City of Sacramento.

During the April 4, 2023 Site reconnaissance, Soar Environmental did not observe any evidence of spills or releases of materials, indicated by stressed vegetation, soil/asphalt/concrete staining, or hydrocarbon odors.

## Environmental Setting

### Topography

According to the 2018 Rio Linda 7.5 minute USGS Topographic Map of the Subject Property and a review of Geocheck Physical Setting in the EDR report, the Subject Property is relatively flat with an elevation of approximately 26 to 30 feet amsl.

### Soil/Geology

According to the Environmental Database Report, the Subject Property is underlain by San Joaquin fine sandy loam, characterized by clayey soils with slow infiltration and a high water table.

### Groundwater/Hydrology

The Subject Property lies within the Lower American Watershed, in the Sacramento River Hydrologic Region. The Sacramento Groundwater Authority GSA designates the Subject Property as 5-021.64, Sacramento Valley-North American. Depth to groundwater beneath the Subject Property is approximately 60 feet below ground surface. The groundwater gradient beneath the Subject Property is dynamic and may be influenced by many factors, including time of year, precipitation totals, and adjacent water supply wells in operation. However, the gradient beneath the Subject Property is generally shallow to the southeast.

## Historical Site Research and Usage

The earliest known business operating onsite was constructed in 1942. Since 1957, the Subject Property has operated as a gasoline station under different names and owners. In 2002, the Regional Water Quality Control Board (RWQCB) opened a case due to the unauthorized release of gasoline to the environment. The owner remediated the site, and in 2022 the RWQCB closed the case. One monitoring well vault is still present onsite, however, all other wells and exploratory borings were backfilled and capped with concrete. Underground storage tanks appear to be present beneath the site, however, the original USTs may have been replaced during previous remediation efforts.

## Historical Tenant City Directory Report

Full results of the EDR Historical Tenant City Directory Report are in **Appendix D**.

**Address: 3200 Rio Linda Blvd (Subject Property)**

| Year | Uses      |
|------|-----------|
| 2017 | Fuel Stop |
| 2014 | Fuel Stop |
| 2010 | Fuel Stop |



|      |                             |
|------|-----------------------------|
| 2005 | Fuel Stop                   |
| 2000 | Fuel Stop                   |
| 1999 | Faruk Mohammed<br>Fuel Stop |
| 1995 | Fuel Stop                   |
| 1992 | Fuel Stop                   |
| 1980 | Speed Bird Gas Station      |
| 1975 | Vacant                      |
| 1970 | Gerwer Shell Service        |
| 1965 | Gerwer Shell Service        |
| 1961 | Arcade Shell Service        |
| 1957 | Arcade Shell Service        |
| 1952 | Christensen TT gro          |
| 1942 | Fretts HA gro               |

**Address: 3300 Rio Linda Blvd** (Adjacent to Subject Property to the north)

| Year | Uses                                 |
|------|--------------------------------------|
| 2014 | Neighborhood Thrift                  |
| 2005 | Busters                              |
| 2000 | Smitty's Drive in                    |
| 1999 | Bhaijee Mohamed<br>Smitty's Drive in |
| 1995 | Smitty's Drive in                    |
| 1992 | Smitty's Drive in                    |
| 1991 | Smitty's Drive in                    |
| 1980 | Smitty's Drive in                    |
| 1975 | Vacant                               |

**Address: 3201 Rio Linda Blvd** (Adjacent to Subject Property to the west)

| Year | Uses   |
|------|--|
| 2020 | Turning Point Evangelistic Center<br>Connie Dias |
| 2010 | Northern Sacramento Minister<br>Lewis Hopper     |
| 2005 | Full Gospel Missionary Church                    |
| 2000 | Full Gospel Missionary Church                    |
| 1999 | Coniglio Philip<br>Full Gospel Missionary Church |
| 1980 | Coniglio Zenna L<br>Joes Place Tavern            |
| 1975 | Coniglio Joseph                                  |



|      |  |
|------|--|
| 1970 | Coniglio Joseph  |
| 1965 | Apartments Ertl Nicholas<br>Luther Chas J<br>Roberts Billy C<br>Vacant<br>Gress VA<br>Coniglio Joseph<br>Marcum Jacqueline M |
| 1961 | Christie Geo   |
| 1957 | Apartments<br>Dillon Della P<br>Christie Geo<br>Vacant<br>Vaughn Wmi H   |
| 1952 | Christie GS<br>Rear Brown GE   |
| 1947 | Christie Geo   |
| 1942 | Christie Geo   |

**Address: 971 Arcade Blvd** (Adjacent to Subject Property to the east)

| Year | Uses             |
|------|------------------|
| 2017 | Jeffrey Crofoot  |
| 2014 | Occupant Unknown |
| 2010 | Occupant Unknown |
| 2005 | Jeffrey Crofoot  |
| 2000 | Occupant Unknown |
| 1999 | Steven Jimenez   |
| 1995 | Steven Jimenez   |
| 1980 | Sid Wolivet      |
| 1975 | Gentry Butch     |
| 1970 | White Hazel F    |
| 1965 | White Hazel F    |
| 1957 | White Hazel F    |
| 1952 | White Hazel F    |
| 1947 | White Hazel F    |
| 1942 | White Hazel F    |

**Address: 3135 Rio Linda Blvd** (Adjacent to Subject Property to the south)

| Year | Uses  |
|------|---|
| 2020 | Stephen Williams<br>Aurielle Williams<br>Debra Williams |
| 2017 | Stephen Williams  |
| 2014 | Stephen Williams  |



|      |                  |
|------|------------------|
| 2005 | Duensing Henry C |
| 2000 | Duensing Henry C |
| 1999 | Duensing Henry C |
| 1995 | Duensing Henry C |
| 1992 | Duensing Henry C |
| 1991 | Duensing Henry C |
| 1980 | Duensing Henry C |
| 1975 | Duensing Henry C |
| 1965 | Duensing Henry C |
| 1961 | Duensing Henry C |
| 1957 | Duensing Henry C |
| 1956 | Duensing Henry C |
| 1952 | Duensing Henry C |
| 1942 | Beierle John     |

### Aerial Photograph Search

Historic aerial photographs are included in **Appendix D**. The table below shows the summary of the historic aerial photograph research:

| Date(s) | Property Comments  | Surrounding Area Comments   |
|---------|--|---|
| 1937    | Undeveloped vacant land.   | Roadway and railroad development mapped to the west of the Subject Property.      |
| 1947    | Small structure onsite   | Increased residential development south, east, and north of the Subject Property. |
| 1957    | Previous structure removed, new building an canopy erected.                      | Area west of Subject Property developed.  |
| 1964    | No changes to Subject Property.  | Further development surrounding Subject Property in all directions.               |
| 1966    | Minimal changes to Subject Property.   | Minimal changes.  |
| 1972    | New structure on west side of Subject Property.                                  | Minimal change.   |
| 1984    | No change.   | Minimal change.   |
| 1993    | Arcade Blvd has been realigned at the intersection of Rio Linda Blvd for safety. | Minimal change.   |

### Historical Topographic Map Report



Historic topographic maps are included in **Appendix D**. The table below shows the summary of the historic topographic map research:

| Date(s) | Quad                            | Property Comments                     | Surrounding Area Comments   |
|---------|---------------------------------|---------------------------------------|---|
| 1891    | TP, Sacramento, 1891, 30-minute | Undeveloped vacant land.              | Roadway and railroad development mapped to the southeast of the Subject Property. |
| 1892    | TP, Sacramento, 1892, 30-minute | Undeveloped vacant land.              | Minimal change.   |
| 1893    | TP, Sacramento, 1893, 30-minute | Undeveloped vacant land.              | Minimal change.   |
| 1902    | TP, Fair Oaks, 1902, 15-minute  | Undeveloped vacant land.              | Additional roadway development surrounding the Subject Property.                  |
| 1911    | S, Brighton, 1911, 7.5-minute   | Undeveloped vacant land.              | Minimal changes.  |
| 1950    | TP, Rio Linda, 1950, 7.5-minute | Undeveloped vacant land.              | Increased streets in grid pattern, increased structures.                          |
| 1951    | TP, Rio Linda, 1951, 7.5-minute | Undeveloped vacant land.              | Additional roadway development, additional structures.                            |
| 1954    | TP, Fair Oaks, 1954, 15-minute  | Undeveloped vacant land.              | Increased roadway and structure development surrounding Subject Property          |
| 1967    | TP, Rio Linda, 1967, 7.5-minute | Main building and canopy constructed. | Minimal change.   |
| 1975    | TP, Rio Linda, 1975, 7.5-minute | Area not mapped.                      | Minimal change.   |
| 1980    | TP, Rio Linda, 1980, 7.5-minute | No change.                            | Minimal change.   |
| 1992    | TP, Rio Linda, 1992, 7.5-minute | No change.                            | Minimal change.   |
| 2012    | TP, Rio Linda, 2012, 7.5-minute | No change.                            | Minimal change.   |
| 2015    | TP, Rio Linda, 2015, 7.5-minute | No change.                            | Minimal Change.   |
| 2018    | TP, Rio Linda, 2018, 7.5-minute | No change.                            | Minimal change.   |



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## Sanborn Maps

Sanborn Fire Insurance Maps are detailed drawings of site development and were typically used by fire insurance companies to determine onsite fire insurability. On March 23, 2023, Soar Environmental researched the Sanborn Fire Insurance Maps, and four Sanborn maps covering the property were discovered. A copy of this search is included in **Appendix D**.



## Database Review

### Regulatory Government Agency Research

Soar Environmental ordered a radius map report from Environmental Data Research (EDR) which has databases maintained by federal, state, and local regulatory agencies (**Appendix C**). This EDR report was reviewed to identify facilities and properties recently or presently under environmental investigation for contamination on or surrounding the site. (\*NR in the table below designates No Record.)

### Previously Prepared Environmental Reports

There are numerous previously prepared environmental reports available for the Subject Property in the RWQCB database, Geotracker. Soar Environmental reviewed the entire case file to determine if there were any lingering environmental concerns. The Geotracker records review indicated that an historic release of gasoline constituents to soil and groundwater had occurred, various remediation techniques were applied to the affected media, and in November 2022, the RWQCB certified the Subject Property as remediated.

**Screening Criteria** The following screening criteria were used to identify which of the cases listed in the EDR report should be further evaluated based on their potential to have impacted the subsurface below the Project Site:

The facility is either:

- Within the Project Site; or,
- Upgradient of, and within 1/8 of a mile from, the Project Site; and,

The facility is listed on one of the databases of reported hazardous materials releases (Federal NPL, Federal CORRACTS, Federal CERCLIS, State CORTESE, State leaking underground storage tank (LUST), State SLIC, RESPONSE, EnviroStor, Geotracker, etc.); or,

The facility is listed as a Resource Conservation and Recovery Act (RCRA) large-quantity hazardous waste generator (LQG), a CERCLIS site, a UST operator, a SWEEPS site, a dry cleaner facility, or a CCSF Business Industry database site with an underground tank storing a significant volume of hazardous materials; or, the facility is listed as a solid waste landfill (not including transfer stations).

### Map Findings Summary of Found Properties

| Database         | Target Property | Search Distance (miles) | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|------------------|-----------------|-------------------------|-------|-----------|-----------|---------|-----|---------------|
| RCRA-SQG         | 1               | 0.250                   | 0     | 0         | NR        | NR      | NR  | 1             |
| RESPONSE         | 0               | 1.000                   | 0     | 1         | 0         | 2       | NR  | 3             |
| ENVIROSTOR       | 0               | 1.000                   | 0     | 1         | 0         | 7       | NR  | 8             |
| LUST             | 1               | 0.500                   | 0     | 0         | 0         | NR      | NR  | 1             |
| Sacramento Co.CS | 1               | 0.500                   | 0     | 0         | 0         | NR      | NR  | 1             |
| UST              | 3               | 0.250                   | 0     | 0         | NR        | NR      | NR  | 3             |
| HIST Cal-Sites   | 0               | 1.000                   | 0     | 1         | 0         | 2       | NR  | 3             |
| CERS HAZ WASTE   | 1               | 0.250                   | 0     | 1         | NR        | NR      | NR  | 2             |
| SWEEPS UST       | 1               | 0.250                   | 1     | 1         | NR        | NR      | NR  | 3             |
| HIST UST         | 1               | 0.250                   | 1     | 1         | NR        | NR      | NR  | 3             |
| CERS TANKS       | 1               | 0.250                   | 0     | 0         | NR        | NR      | NR  | 1             |
| CA FID UST       | 1               | 0.250                   | 1     | 1         | NR        | NR      | NR  | 3             |
| RCRA NonGen/ NLR | 1               | 0.250                   | 0     | 2         | NR        | NR      | NR  | 3             |



|                   |           |          |          |           |          |           |          |           |
|-------------------|-----------|----------|----------|-----------|----------|-----------|----------|-----------|
| FINDS             | 3         | 0.001    | 0        | NR        | NR       | NR        | NR       | 3         |
| ECHO              | 2         | 0.001    | 0        | NR        | NR       | NR        | NR       | 2         |
| CA BOND EXP. PLAN | 0         | 1.000    | 0        | 0         | 0        | 2         | NR       | 2         |
| Cortese           | 1         | 0.500    | 0        | 0         | 0        | NR        | NR       | 1         |
| HIST CORTESE      | 1         | 0.500    | 0        | 1         | 0        | NR        | NR       | 2         |
| HAZNET            | 3         | 0.001    | 0        | NR        | NR       | NR        | NR       | 3         |
| Sacramento Co. ML | 4         | 0.250    | 1        | 2         | NR       | NR        | NR       | 7         |
| CERS              | 2         | 0.001    | 0        | NR        | NR       | NR        | NR       | 2         |
| HWTS              | 5         | TP       | NR       | NR        | NR       | NR        | NR       | NR        |
| EDR Hist Auto     | 2         | 0.125    | 1        | NR        | NR       | NR        | NR       | 3         |
| RGA LUST          | 1         | 0.001    | 0        | NR        | NR       | NR        | NR       | 1         |
| <b>Totals</b>     | <b>36</b> | <b>-</b> | <b>5</b> | <b>12</b> | <b>0</b> | <b>13</b> | <b>0</b> | <b>66</b> |

Full list of regulatory database results within 1 mile of the project area can be found in **Appendix C**.

### Subject Site

The review of environmental records found the Subject Property was listed under the researched databases. These database listings are detailed below.

|                                   |   |
|-----------------------------------|---|
| <b>Facility</b>                   | Fuel Stop Mini Mart and Tire  |
| <b>Address</b>                    | 3200 Rio Linda Blvd Sacramento, CA 95815  |
| <b>Researched Database(s)</b>     | UST, FINDS, HAZNET, HWTS, HIST UST, HIST CORTESE, SWEEPS UST, CA FID UST, CERS HAZ WASTE, CERS TANKS, CERS, RCRA-SQG, ECHO, EDR Hist Auto, LUST, Sacrametno Co. CS, CORTESE, RCRA NonGen/ NLR,  |
| <b>Distance From Site (ft)</b>    | Target Property   |
| <b>Elevation Compared to Site</b> | N/A   |
| <b>Comments</b>                   | <p>HAZNET classification for the below hazards found on the property:<br/>         0.8757 tons of Unspecified oil-containing waste<br/>         Off-specification, aged or surplus organics</p> <p>HWTS:<br/>         Facility listed as inactive on 3/18/2023.</p> <p>HIST UST:<br/>         Facility listed as gas station with five USTs reported installed. Four of the tanks reported containing regular gasoline fuel. One tank reported contained premium fuel.</p> <p>SWEEPS UST:<br/>         Five USTs containing motor vehicle fuel reported installed. Four of the tanks reported containing regular gasoline fuel. One tank reported contained premium fuel.</p> <p>CERS HAZ WASTE:<br/>         Facility listed as hazardous waste generator.</p> |



CERS:

Leak detection equipment disabled or tampered with in a manner that would prevent the monitoring system from detecting and/or alerting the owner/operator of a leak. Returned to compliance on 03/15/2021.

Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 p.s.i.g. and restrict or shut off the flow of product through the piping when a leak is detected. Returned to compliance on 12/06/2017.

RCRA-SQG:

Facility listed as small quantity generator. Benzene and Halogenated solvents are listed as waste. No violations or evaluations reported.

RCRA NonGen/ NLR:

No violations or evaluations reported.

LUST:

Potential contaminants of gasoline to the drinking water supply aquifer.

On December 16, 1999, five USTs were removed. During removal of the USTs, an SCEMD inspector noted the presence of gasoline odor and discoloration in subsurface soil. Following system removal, soil samples were collected under SCEMD direction. The analytical results from the sampling confirmed that soil beneath the USTs and dispensers had been impacted by Total Petroleum Hydrocarbons (TPH)-as-gasoline, benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiarybutyl ether (MTBE). Seven onsite soil borings were drilled, and three groundwater monitoring wells (MW-1, MW-2 and MW-3) were installed. The results of this investigation showed that soil and groundwater beneath the site had been impacted by gasoline hydrocarbons from the former UST system. Impacts to soil and groundwater were pervasive and mostly undefined. Between July 18, 2002, and May 30, 2005, a total of approximately 5,213.50 ounces (40.73 gallons) of free product were removed after 68 recovery events. Between June 8, 2005, and October 16, 2007, a total of 3,390 gallons of gasoline and groundwater mixture were removed from MW-3 in 26 monthly vacuum truck product recovery events. The free product removal events were discontinued in October 2007, pending the startup of the soil vapor extraction and air sparging system. The system began operation in 2009 and continues to the present.

The case was reported as closed and completed on 3/5/2019.

Sacramento Co. ML:

Facility status reported as inactive.



|           |                                       |
|-----------|---------------------------------------|
| SDS Sheet | See <b>Appendix F</b> for SDS details |
|-----------|---------------------------------------|

**Adjacent/Nearby Properties**

|                                   |   |
|-----------------------------------|---|
| <b>Facility</b>                   | Smitty's Drive-Inn  |
| <b>Address</b>                    | 3300 Rio Linda Blvd Sacramento, CA 95838  |
| <b>Researched Database(s)</b>     | HIST UST, Sacramento Co. ML, EDR Hist Auto, SWEEPS UST, CA FID UST  |
| <b>Distance from Ste (ft)</b>     | 576   |
| <b>Elevation compared to Site</b> | Higher  |
| <b>Comments</b>                   | <p>HIST UST:<br/>         Facility listed as gas station with two USTs reported installed. The tanks reported contained regular gasoline fuel.</p> <p>CA FID UST:<br/>         Facility listed as inactive.</p> |

|                                   |  |
|-----------------------------------|--|
| <b>Facility</b>                   | Ethan Browning   |
| <b>Address</b>                    | 1045 Sonoma Ave Sacramento, CA 95815   |
| <b>Researched Database(s)</b>     | SWEEPS UST, CA FID UST, HIST UST, Sacramento Co. ML  |
| <b>Distance from Ste (ft)</b>     | 821  |
| <b>Elevation compared to Site</b> | Higher   |
| <b>Comments</b>                   | <p>SWEEPS UST:<br/>         One UST containing motor vehicle fuel reported installed.</p> <p>CA FID UST:<br/>         Facility listed as active.</p> |

|                                   |  |
|-----------------------------------|--|
| <b>Facility</b>                   | Sonoma Avenue Site   |
| <b>Address</b>                    | 1035 Sonoma Avenue Sacramento, Ca 95815  |
| <b>Researched Database(s)</b>     | RESPONSE, ENVIROSTOR, HIST Cal-Sites, LIENS, HIST CORTESE, CERS  |
| <b>Distance from Ste (ft)</b>     | 871  |
| <b>Elevation compared to Site</b> | Higher   |
| <b>Comments</b>                   | <p>RESPONSE:<br/>         Facility reported as location of illegal dumping. Potential soil contamination of lead. Approximately 189 cy of lead contaminated soils were transported for</p> |



disposal to a Class I landfill. Soil samples were analyzed by a mobile XRF lab in conjunction with a state certified lab during the excavation to ensure complete removal of the contaminated soils. Backfill was applied to the excavated areas, spread evenly, and compacted. All work was performed in accordance with the approved Removal Action Workplan. No further action is required.

**LIENS:**

The site is a 0.13-acre undeveloped lot. In 1989, the responsible parties transported and disposed of lead contaminated soil and battery parts originating from Sierra Battery Sales in 11 stockpiles throughout the site. After numerous attempts to have the responsible parties conduct the cleanup, DTSC through use of its contractor removed the contaminated soils and backfilled excavated areas. The removal met preliminary remediation goals set in the Removal Action Workplan and no further response is necessary. Site was certified 2/5/96.

### **Vapor Encroachment Screening**

Vapor encroachment screening was not conducted as a part of this assessment.

### **Orphan Properties**

No Orphan properties were found from the database searched conducted by Soar.

### **Agency File Review**

#### **Local/County**

Records requests were filed with the City of Sacramento and Sacramento County pertaining to any public records available regarding fire incidents or hazardous materials incidents at the Subject Property. Sacramento County Department of Public Health, Division of Environmental Health located sixteen records for this address/APN (See Appendix D). These records reflect the findings within the CUPA and UST databases. Inspections of the UST operations, repair, and removal are documented. Correspondence between the county and the subject property management about the UST removal operations is recorded. Hazardous material permits were also provided for the subject property.

### **Conclusions**

Soar Environmental Consulting conducted this Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-21 on Fresno County Assessor's Parcel Number 158-220-31, located at 3200 Rio Linda Blvd., in Sacramento, California, 95815. This Environmental Site Assessment revealed no recognized environmental concerns or significant data gaps in connection with the Subject Property. Any exceptions to, or deletions from, this practice are described in Section 2.4 of this report.

### **Recognized Environmental Conditions**

In November 2022, the RWQCB certified that the historic release of gasoline had been remediated and the case was summarily closed. One Site proximal and upgradient to the Subject Property was called out in the EDR



report as having environmental concerns. However, that site is separated from the Subject Property by Arcade Creek, which is at a lower elevation than the Subject Property. Subsurface contamination from this site is not likely to impact the subsurface beneath the Subject Property as the Creek provides a hydrologic barrier, which may carry contaminants downstream, away from the Subject Property. Based on these circumstances, no RECs were identified on the Subject Property.

### **Controlled Recognized Environmental Conditions**

No CRECs were identified in connection with the Subject Property.

### **Historical Recognized Environmental Conditions**

No HRECs were identified in connection with the Subject Property.

### **De Minimis Conditions**

No DMCs were identified in connection with the Subject Property.

### **Recommendations**

Based on these circumstances, Soar Environmental Consulting does not recommend further investigation to assess the potential for environmental concerns on the Subject Property.



### Qualifications and Signature

Soar Environmental Consulting, Inc. has performed this assessment under my supervision in accordance with generally accepted environmental practices and procedures, as of the date of this report. I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in 312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. I have employed the degree of care and skill ordinarily exercised under similar circumstances by reputable environmental professionals practicing in this area. The conclusions contained within this assessment are based upon site conditions readily observed or were reasonably ascertainable and present at the time of the reconnaissance.

Evan G. Studley

\_\_\_\_\_  
Name

*Evan Studley*

\_\_\_\_\_  
Signature



## References

### Agencies Contacted

### Documents Reviewed

ASTM E1527-21, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process dated December 2021. [www.astm.org](http://www.astm.org)

ASTM E2600-15, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions, dated October 2015. [www.astm.org](http://www.astm.org)

California State Water Resources Control Board, online Groundwater Ambient Monitoring and Assessment (GAMA) Program database  
[https://www.waterboards.ca.gov/water\\_issues/programs/gama/online\\_tools.html](https://www.waterboards.ca.gov/water_issues/programs/gama/online_tools.html)

EDR Aerial Photo Decade Package, Sarita Prasad SAC, Inquiry Number: 7287764.8, dated March 23, 2023, EDR, 6 Armstrong Road, 4th Floor, Shelton, Connecticut 06484.

EDR Certified Sanborn® Map Report, Sarita Prasad SAC, Inquiry Number: 7287764.3, dated March 23, 2023, EDR, 6 Armstrong Road, 4th Floor, Shelton, Connecticut 06484.

EDR-City Directory Image Report Sarita Prasad SAC, Inquiry Number: 7287764.5, Dated March 23, 2023, EDR, 6 Armstrong Road, 4th Floor, Shelton, Connecticut 06484.

EDR Historical Topo Map Report, Sarita Prasad SAC, Inquiry Number: 7287764.4, dated March 23, 2023, EDR, 6 Armstrong Road, 4th Floor, Shelton, Connecticut 06484.

EDR Radius Map with Geocheck®, Sarita Prasad SAC, Inquiry Number: 7287764.2s, dated March 23, 2023, EDR, 6 Armstrong Road, 4th Floor, Shelton, Connecticut 06484

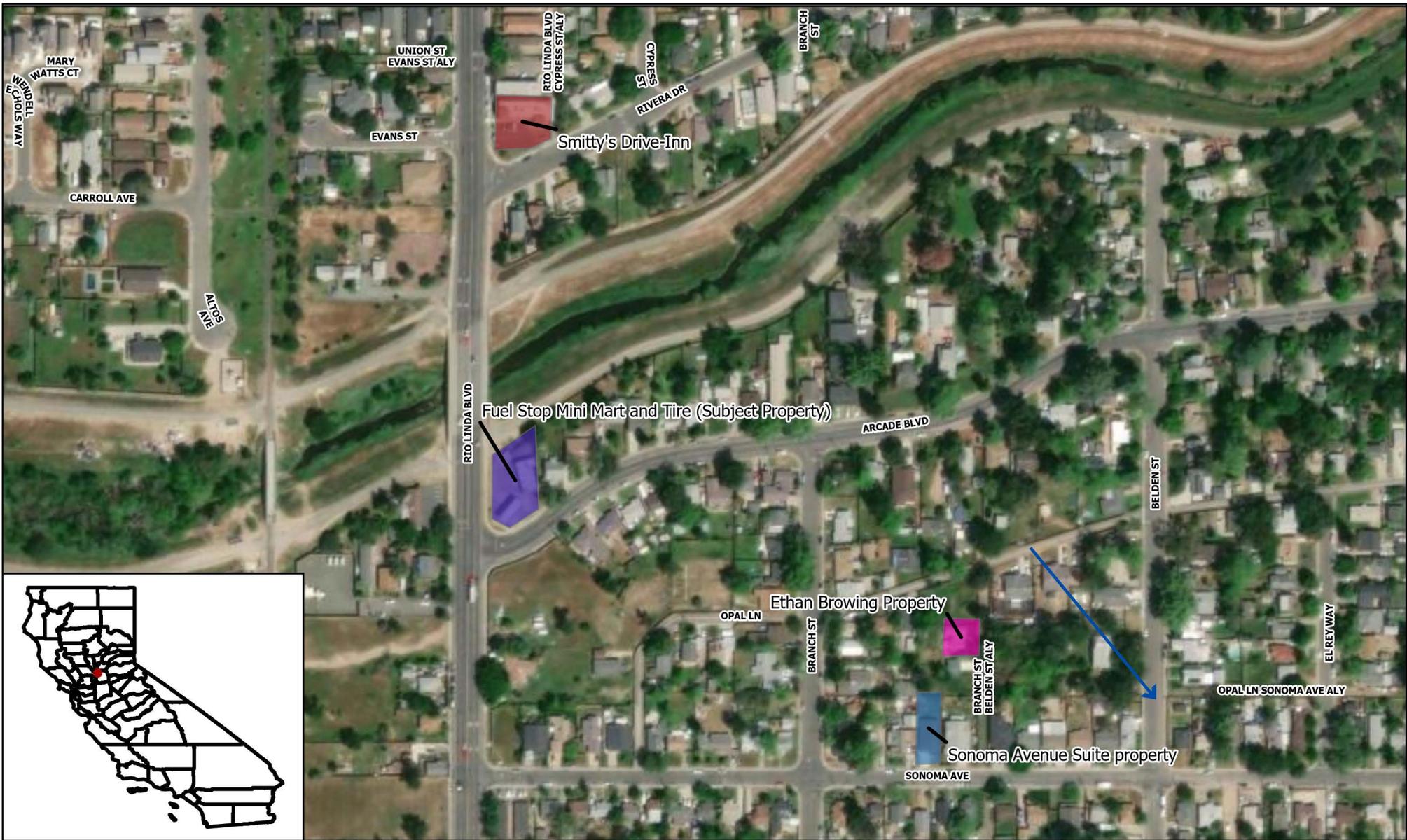
Google Earth Pro © 2019.



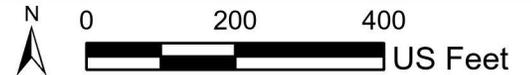
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## Appendix A: Maps



→ Ground Water Flow



559.547.8884  
www.soarhere.com

Title  
Former Fuel Stop Gasoline Station

Client  
Sarita Prasad

Facility Address  
3200 Rio Linda Blvd Sacramento, CA  
95815

Figure # 1  
Site Map

Revision Date  
04/21/23



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## Appendix B: Site Photos



# Monitoring Log:

1322 East Shaw Avenue  
Suite 400  
Fresno, California 93710  
559-547-8884  
www.soarhere.com

Soar Environmental

|  |  |                    |   |                              |  |
|--|--|--------------------|---|------------------------------|--|
| <b>Survey Date:</b> 04/03/2023   |  | <b>Start Time:</b> | <b>End Time:</b>  | <b>Monitor(s):</b> Studley   |  |
| <b>Weather Conditions:</b> Clear Overcast <input type="checkbox"/> Pt. Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Sleet/Hail <input type="checkbox"/>   |  |                    | <b>Wind:</b> 0 <input type="checkbox"/> < 5 5-20 <input type="checkbox"/> | >20 <input type="checkbox"/> | <b>Air Temp:</b> 47 °F (Start) / 53 °F (End) |
| <b>Survey Locality:</b>  |  |                    |   |                              |  |
| <u>APN:</u>  |  |                    |   |                              |  |
| <u>Address:</u> 3200 Rio Linda Blvd, Sacramento, CA 95815  |  |                    |   |                              |  |
| <b>Notes/Observations:</b>   |  |                    |   |                              |  |
| <p>On April 3, 2023, Soar Environmental mobilized to the former Fuel Stop Mini-Mart and Tire gas station. The approximately 0.5-acre former auto service station parcel is bound on the north by Arcade Creek, an ephemeral stream; on the South by Arcade Blvd; to the West by Rio Linda Blvd, and by single family residential homes to the east.</p> <p>Electricity and gas are provided to the Subject Property via subsurface connections. It appears that sewer and water are provided by the City of Sacramento. There are no storm drain inlets within the Property boundaries, however, a storm drain inlet is present along Arcade Blvd. Arcade Blvd and Rio Linda Blvd have curbs and gutters to convey stormwater.</p> <p>The Subject Property is separated from Arcade Creek by a 10-foot-tall levee and 15-foot-wide dirt levee road along the top of the southern stream bank. There is an 8-foot-tall earthen bank leading up to Rio Linda Blvd. The majority of the Subject Property is covered with cracked and patched asphalt. Cracked concrete is present surrounding the two fuel dispensers, the underground storage tanks and associated fill ports, and beneath the metal canopy. One monitoring well vault, a water main vault, and underground storage tank filling ports, are present within the cracked concrete. Numerous concrete patches are present within the cracked asphalt and concrete, possibly derived from previous onsite subsurface investigations. The metal-siding clad main building has been boarded up for the past two years. Vandals have removed all electrical wiring from the fuel dispensers and exterior of the building and canopy. Bay doors are boarded up, however, there is an opening in the metal siding at the rear of the main building which provides crawl space access for trespassers. Windows in the front are protected by wrought iron bars.</p> <p>A chain-link fence along the eastern and northern parcel boundaries is damaged and provides access to the rear of the building. A portion of the southeastern fence is wrought iron. Trash, clothes, and dirty blankets are present throughout the Subject Property. Weeds are growing in asphalt and concrete cracks, and on the slopes up to Rio Linda Blvd and Arcade Creek. Paint is chipping from the canopy and main building structure. 55-gallon metal drums are present inside the main building. It is unknown if the drums are full, partially full, or empty. However, clothes and a pry bar were present on one of the drums during the April 4, 2023 Site reconnaissance. There is an air tank present near the exterior northeastern corner of the main building along with various pipes and conduits. A swamp cooler is attached to the rear of the main building.</p> |  |                    |   |                              |  |



Photo 1 – North corner of the site (Facing North).

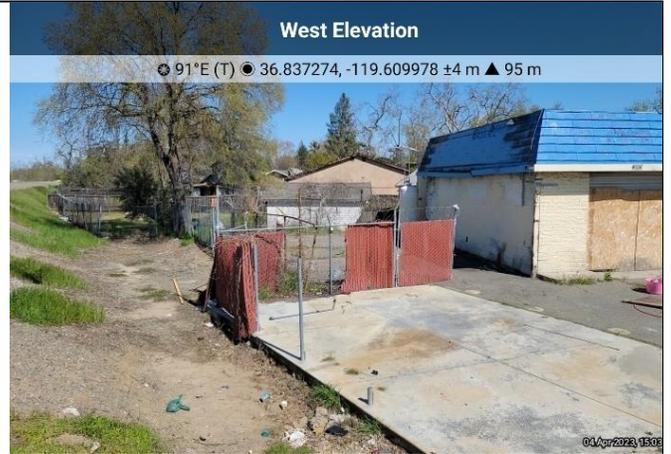


Photo 2 – North corner of the site (Facing East).

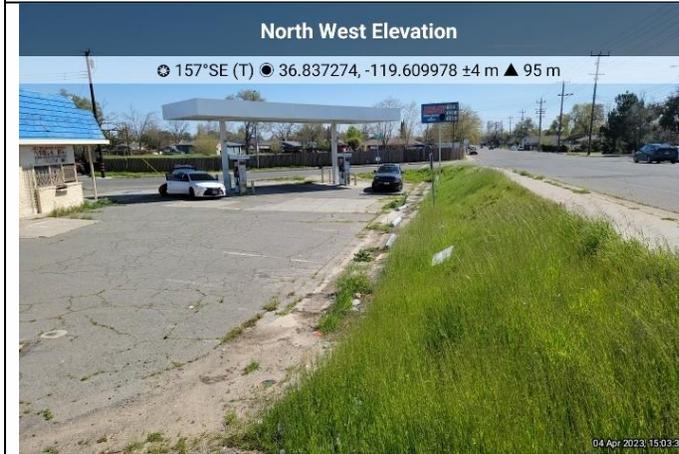


Photo 3 – North corner of the site (Facing South).



Photo 4 – North corner of the site (Facing West).



Photo 5 – West corner of the site (Facing North).



Photo 6 – West corner of the site (Facing East).



Photo 7 – West corner of the site (Facing South).



Photo 8 – West corner of the site (Facing West).



Photo 9 – South corner of the site (Facing North).



Photo 10 – South corner of the site (Facing East).



Photo 11- South corner of the site (Facing South).

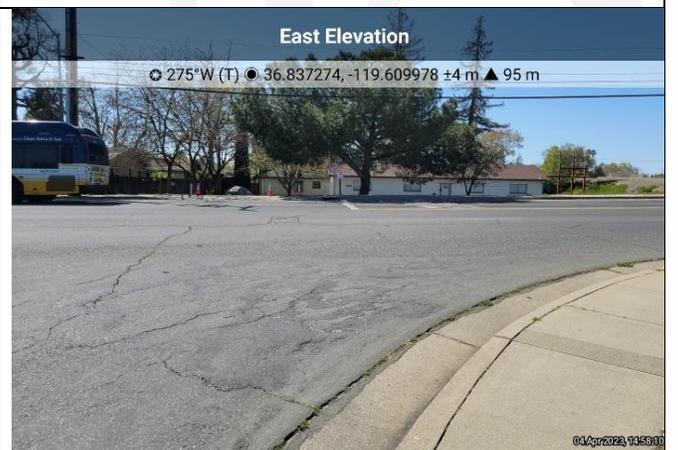


Photo 12- South corner of the site (Facing West).



Photo 13 – East corner of the site (Facing North).

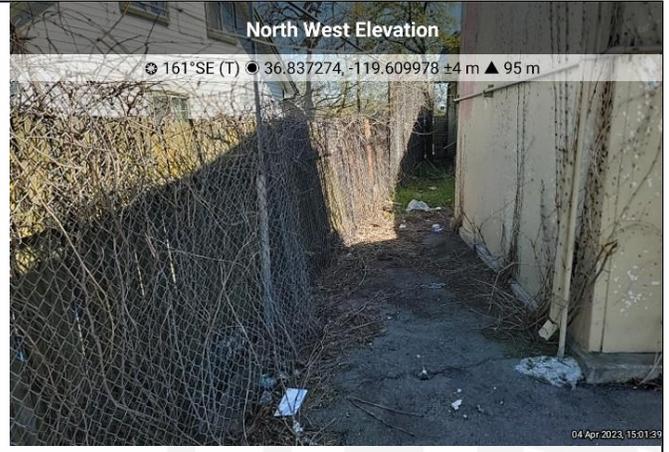


Photo 14 – East corner of the site (Facing East).



Photo 15 – East corner of the site (Facing South).

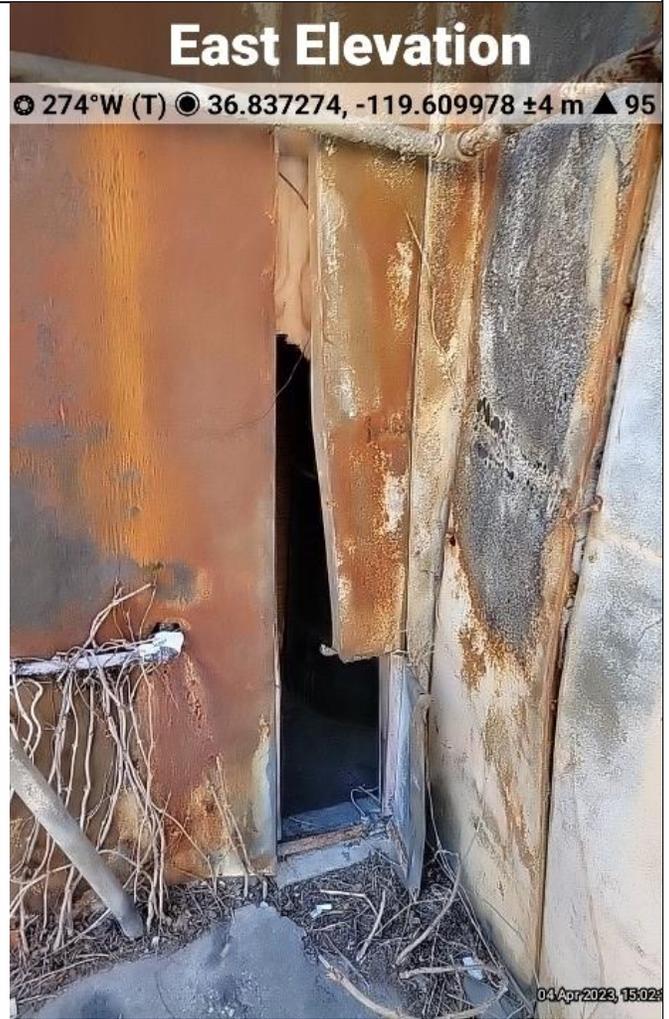


Photo 16 – East corner of the site (Facing West).



Photo 17 – Water vault and patched asphalt from previous site investigations. View northwest.



Photo 18 – City of Sacramento MS4 storm drain inlet drains stormwater from the site. View northwest.



Photo 19 – Patches from previous site borings and trenches in cracked asphalt. View northwest.



Photo 20 – Tank filling ports. View north.



Photo 21 – Lone remaining monitoring well onsite. View southwest.



Photo 22 – Fuel dispenser wiring has been removed. View north.



Photo 23 – Fuel dispenser wiring has been removed. View northeast.

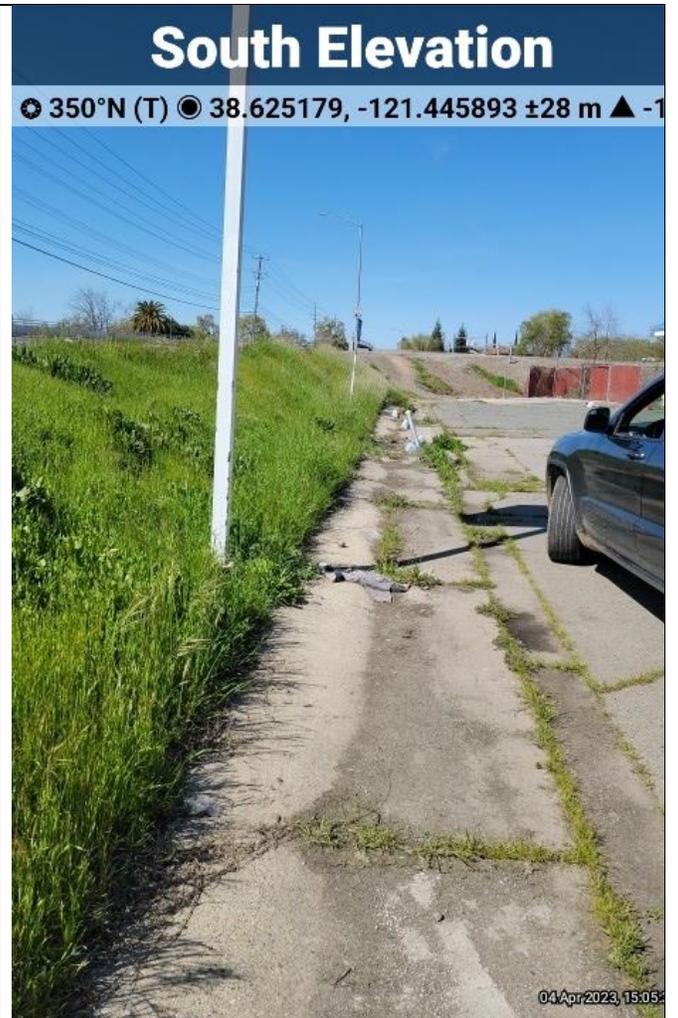


Photo 24 – Concrete swale conveys stormwater from west side of Site to storm drain on Arcade Blvd, south of site. View north.



Photo 25 – Arcade Creek lies immediately north of the Subject Property. View north.

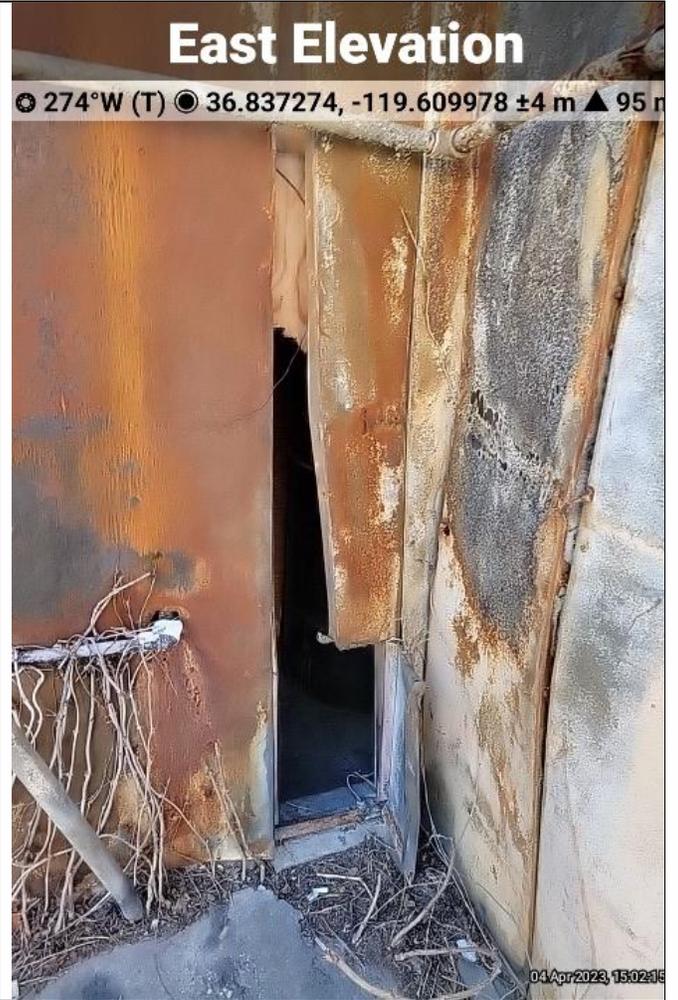


Photo 26 – Hole present in steel wall of building at rear allows trespasser entry. View west.

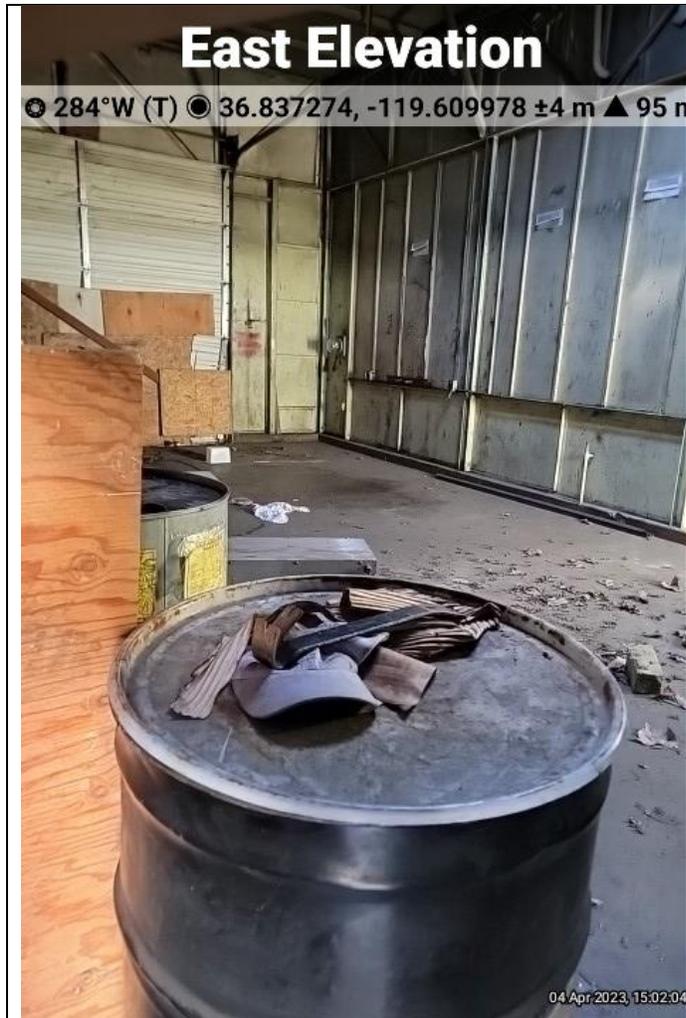


Photo 27 – Personal items and used 55-gallon steel drum present in interior of building. View west.

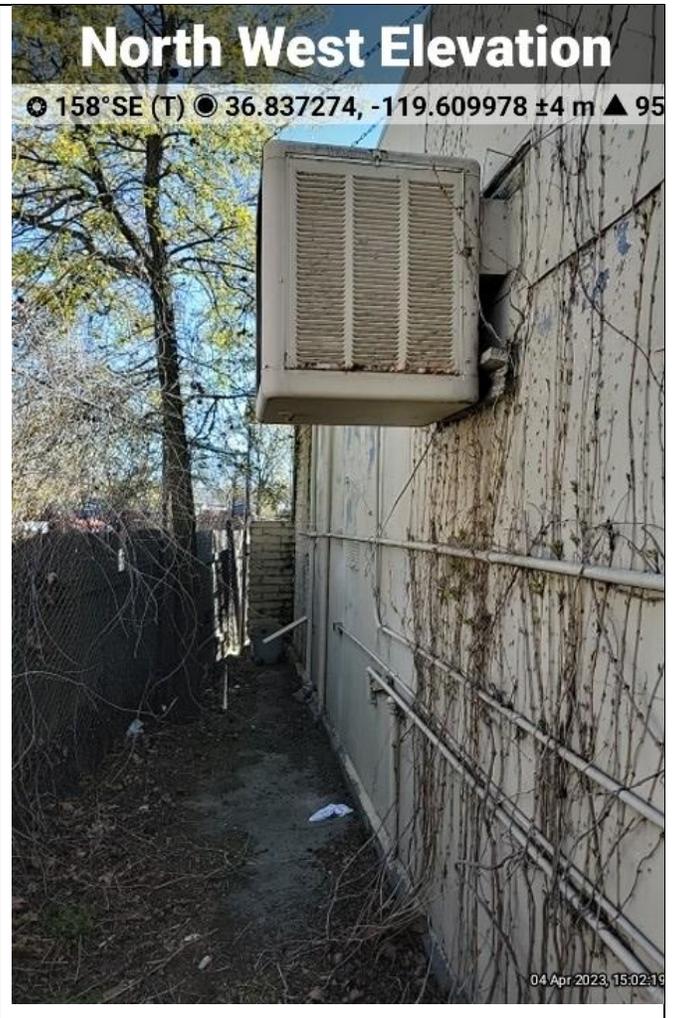


Photo 28 – Evaporative cooler present on rear of building. View southeast.

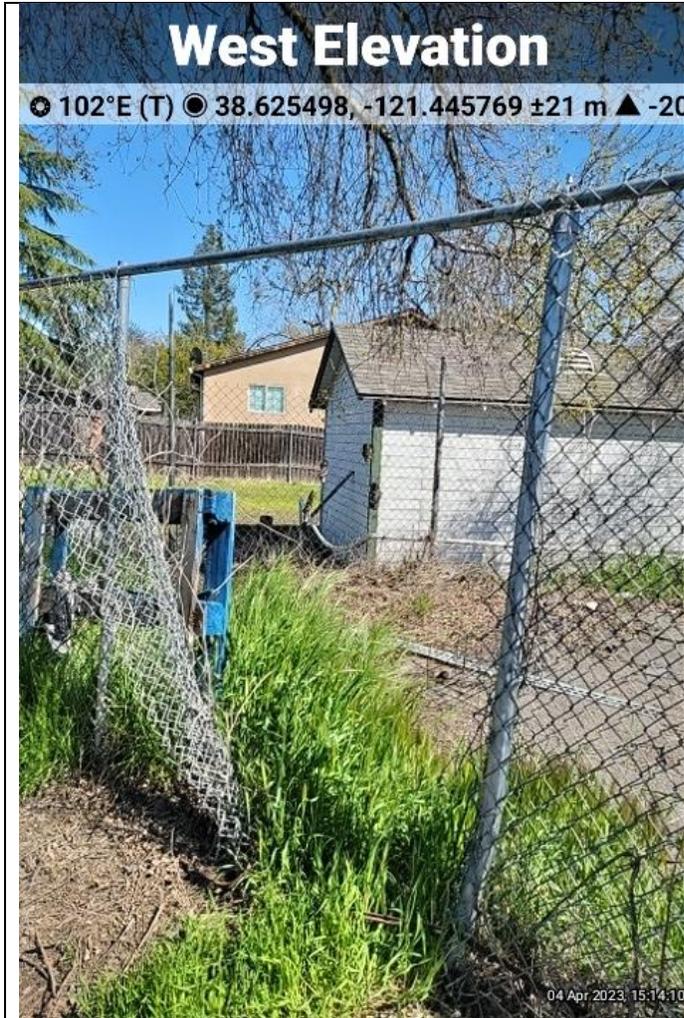


Photo 29 – Perimeter fence damaged along eastern side of site. View east.



Photo 30 – Arcade Creek access road immediately north of Subject Property. View northeast.



Photo 31 – Bay doors and entry door boarded up for safety. note cracked asphalt. View east.

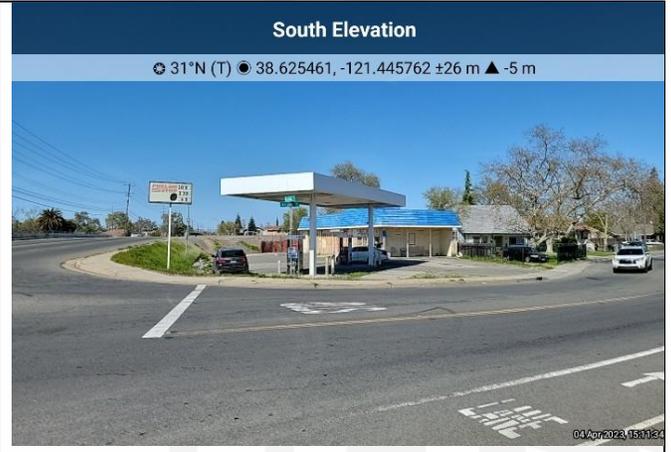


Photo 32 – Subject property from across Arcade Blvd. View north.

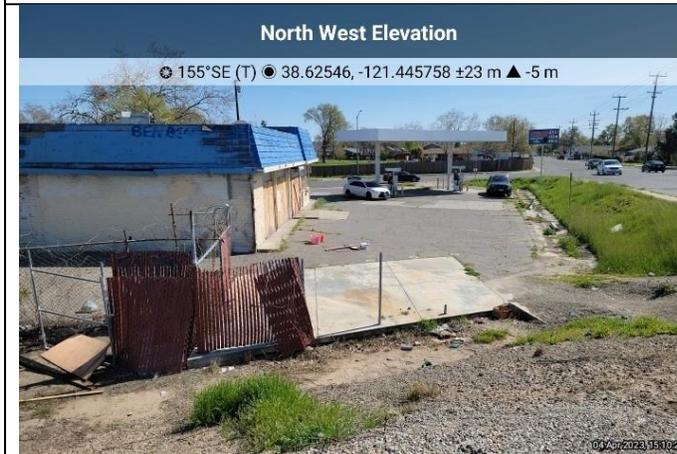


Photo 33 – Subject property from Arcade Creek access road. View southeast.



Photo 34 – Round concrete structure within concrete swale at west side may have been associated with storm water drainage but presently filled with soil. View northwest.



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## Appendix C: Regulatory Records Review

**Sarita Prasad SAC**

3200 Rio Linda Boulevard  
Sacramento, CA 95815

Inquiry Number: 7287764.2s  
March 23, 2023

# 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.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

3200 RIO LINDA BOULEVARD  
SACRAMENTO, CA 95815

#### COORDINATES

Latitude (North): 38.6253870 - 38° 37' 31.39"  
Longitude (West): 121.4458580 - 121° 26' 45.08"  
Universal Transverse Mercator: Zone 10  
UTM X (Meters): 635289.8  
UTM Y (Meters): 4276145.0  
Elevation: 30 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 12021639 RIO LINDA, CA  
Version Date: 2018  
  
South Map: 12021645 SACRAMENTO EAST, CA  
Version Date: 2018

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140621  
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:  
3200 RIO LINDA BOULEVARD  
SACRAMENTO, CA 95815

Click on Map ID to see full detail.

| MAP ID              | SITE NAME            | ADDRESS              | DATABASE ACRONYMS                                    | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---------------------|----------------------|----------------------|--|--------------------|----------------------------|
| <a href="#">A1</a>  | 15287 SACRAMENTO COU | 3200 RIO LINDA BLVD  | FINDS  |                    | TP                         |
| <a href="#">A2</a>  | FUEL STOP MINI MART  | 3200 RIO LINDA BLVD  | UST  |                    | TP                         |
| <a href="#">A3</a>  | RAMAGE ENVIROMENTAL  | 3200 RIO LINDA BLVD  | HAZNET, HWTS   |                    | TP                         |
| <a href="#">A4</a>  | ALLADIN SELF SERVICE | 3200 RIO LINDA BLVD  | HIST UST   |                    | TP                         |
| <a href="#">A5</a>  | FULL STOP MINI MARKE | 3200 RIO LINDA BOULE | UST  |                    | TP                         |
| <a href="#">A6</a>  | RIO LINDA GAS        | 3200 RIO LINDA BLVD  | HWTS   |                    | TP                         |
| <a href="#">A7</a>  | FULL STOP MINIMART   | 3200 RIO LINDA       | HIST CORTESE   |                    | TP                         |
| <a href="#">A8</a>  | FUEL STOP            | 3200 RIO LINDA BLVD  | SWEEPS UST, CA FID UST                               |                    | TP                         |
| <a href="#">A9</a>  | SAMEER INC DBA FUEL  | 3200 RIO LINDA BLVD  | FINDS  |                    | TP                         |
| <a href="#">A10</a> | FUEL STOP MINI MART  | 3200 RIO LINDA BLVD  | CERS HAZ WASTE, CERS TANKS, HAZNET, CERS, HWTS       |                    | TP                         |
| <a href="#">A11</a> | FARUK FULL STOP      | 3200 RIO LINDA BLVD  | RCRA-SQG, HAZNET, HWTS                               |                    | TP                         |
| <a href="#">A12</a> | FARUK FULL STOP      | 3200 RIO LINDA BLVD  | FINDS, ECHO  |                    | TP                         |
| <a href="#">A13</a> | ARCADE SHELL SERVICE | 3200 RIO LINDA BLV   | EDR Hist Auto  |                    | TP                         |
| <a href="#">A14</a> | FULL STOP MINIMART   | 3200 RIO LINDA BLVD  | LUST, Sacramento Co. CS, Cortese, CERS               |                    | TP                         |
| <a href="#">A15</a> | FULL STOP MINIMART   | 3200 RIO LINDA BLVD  | RGA LUST   |                    | TP                         |
| <a href="#">A16</a> | FULL STOP MINI MART  | 3200 RIO LINDA BLVD  | HWTS   |                    | TP                         |
| <a href="#">A17</a> | FUEL STOP MINI MART  | 3200 RIO LINDA BLVD  | Sacramento Co. ML                                    |                    | TP                         |
| <a href="#">A18</a> | SAMEER INC DBA FUEL  | 3200 RIO LINDA BLVD  | RCRA NonGen / NLR                                    |                    | TP                         |
| <a href="#">A19</a> | SAMEER INC DBA FUEL  | 3200 RIO LINDA BLVD  | ECHO   |                    | TP                         |
| <a href="#">A20</a> | GERWER SHELL SERVICE | 3200 RIO LINDA BLV   | EDR Hist Auto  |                    | TP                         |
| <a href="#">A21</a> | FULL STOP MINI MART  | 3200 RIO LINDA BLVD  | UST  |                    | TP                         |
| <a href="#">A22</a> | FULL STOP MINI MART  | 3200 RIO LINDA BL    | Sacramento Co. ML                                    |                    | TP                         |
| <a href="#">A23</a> | ALLADIN SELF SERVICE | 3200 RIO LINDA BL    | Sacramento Co. ML                                    |                    | TP                         |
| <a href="#">A24</a> | FUEL STOP            | 3200 RIO LINDA BL    | Sacramento Co. ML                                    |                    | TP                         |
| <a href="#">B25</a> | SMITTY'S DRIVE-INN   | 3300 RIO LINDA BL    | HIST UST, Sacramento Co. ML                          | Higher             | 576, 0.109, North          |
| <a href="#">B26</a> | SMITTY'S             | 3300 RIO LINDA BLVD  | EDR Hist Auto  | Higher             | 576, 0.109, North          |
| <a href="#">B27</a> | DAVE SMITH           | 3300 RIO LINDA BLVD  | SWEEPS UST, CA FID UST                               | Higher             | 576, 0.109, North          |
| <a href="#">C28</a> | ETHAN BROWNING       | 1045 SONOMA AVE      | SWEEPS UST, CA FID UST                               | Higher             | 821, 0.155, ESE            |
| <a href="#">C29</a> | ETHAN BROWN          | 1045 SONOMA AV       | HIST UST, Sacramento Co. ML                          | Higher             | 821, 0.155, ESE            |
| <a href="#">C30</a> | SONOMA AVENUE SITE   | 1035 SONOMA AVENUE   | RESPONSE, ENVIROSTOR, HIST Cal-Sites, LIENS, HIST... | Higher             | 871, 0.165, ESE            |
| <a href="#">D31</a> | CITY OF SAC - WELL 1 | 851 ACACIA AVE       | CERS HAZ WASTE, Sacramento Co. ML, CERS              | Lower              | 1044, 0.198, SSW           |
| <a href="#">D32</a> | WELL 143             | 3001 RIO LINDA BLVD  | RCRA NonGen / NLR                                    | Lower              | 1063, 0.201, South         |
| <a href="#">33</a>  | MARIA SANTILLAN      | 1015 RIVERA DRIVE    | RCRA NonGen / NLR                                    | Higher             | 1143, 0.216, NE            |
| <a href="#">34</a>  | CLEANING CIRCUS      | 3213 MARYSVILLE BOUL | RCRA-SQG, ENVIROSTOR, FINDS, ECHO, Sacramento Co...  | Higher             | 3618, 0.685, East          |
| <a href="#">35</a>  | DEL PASO HEIGHTS ES  | 590 MOREY AVENUE     | ENVIROSTOR, SCH, CIWQS                               | Higher             | 3870, 0.733, NNW           |
| <a href="#">36</a>  | 7UP BOTTLING FACILIT | 2670 LAND AVE        | ENVIROSTOR, SWF/LF, LUST, CPS-SLIC, VCP, DEED,...    | Higher             | 4760, 0.902, SE            |
| <a href="#">E37</a> | STRAWBERRY MANOR PCB | 188 OLMSTEAD DR      | HIST Cal-Sites                                       | Lower              | 4929, 0.934, West          |
| <a href="#">E38</a> | STRAWBERRY MANOR/PCB | 188 OLMSTEAD         | RESPONSE, ENVIROSTOR, CA BOND EXP. PLAN              | Lower              | 4929, 0.934, West          |
| <a href="#">F39</a> | HARRIS AVENUE PCB SI | 627 HARRIS AVENUE    | CA BOND EXP. PLAN                                    | Higher             | 4999, 0.947, NNW           |

MAPPED SITES SUMMARY

Target Property Address:  
 3200 RIO LINDA BOULEVARD  
 SACRAMENTO, CA 95815

Click on Map ID to see full detail.

| MAP ID              | SITE NAME            | ADDRESS              | DATABASE ACRONYMS                                    | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---------------------|----------------------|----------------------|--|--------------------|----------------------------|
| <a href="#">F40</a> | HARRIS AVENUE PCB SI | 627 HARRIS AVE       | RESPONSE, ENVIROSTOR, CPS-SLIC, HIST Cal-Sites,...   | Higher             | 4999, 0.947, NNW           |
| <a href="#">41</a>  | AMERICAN POLY-THERM  | 1636 KATHLEEN AVENUE | ENVIROSTOR, CPS-SLIC, CHMIRS, CERS                   | Higher             | 5080, 0.962, ESE           |
| <a href="#">42</a>  | RT METRO             | 2700 ACADEMY WAY     | ENVIROSTOR, Sacramento Co. CS, SWEEPS UST, CA FID... | Higher             | 5265, 0.997, SE            |

## EXECUTIVE SUMMARY

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

| Site  | Database(s)   | EPA ID |
|---|---|--------|
| 15287 SACRAMENTO COU<br>3200 RIO LINDA BLVD<br>RIO LINDA, CA 95673  | FINDS<br>Registry ID:: 110043364301   | N/A    |
| FUEL STOP MINI MART<br>3200 RIO LINDA BLVD<br>SACRAMENTO, CA 95815  | UST<br>Database: UST, Date of Government Version: 12/02/2022<br>Facility Id: FA0005745                                  | N/A    |
| RAMAGE ENVIROMENTAL<br>3200 RIO LINDA BLVD<br>SACRAMENTO, CA 95815  | HAZNET<br>GEPaid: CAC002554808<br><br>HWTS  | N/A    |
| ALLADIN SELF SERVICE<br>3200 RIO LINDA BLVD<br>SACRAMENTO, CA 95815 | HIST UST<br>Facility Id: 00000058657  | N/A    |
| FULL STOP MINI MARKE<br>3200 RIO LINDA BOULE<br>RIO LINDA, CA 95815 | UST<br>Database: UST CLOSURE, Date of Government Version: 11/28/2022  | N/A    |
| RIO LINDA GAS<br>3200 RIO LINDA BLVD<br>SACRAMENTO, CA 95815        | HWTS  | N/A    |
| FULL STOP MINIMART<br>3200 RIO LINDA<br>SACRAMENTO, CA 95815        | HIST CORTESE<br>Reg Id: 341309  | N/A    |
| FUEL STOP<br>3200 RIO LINDA BLVD<br>SACRAMENTO, CA 95815            | SWEEPS UST<br>Status: A<br>Tank Status: A<br>Comp Number: 58657<br><br>CA FID UST<br>Facility Id: 34007257<br>Status: A | N/A    |
| SAMEER INC DBA FUEL<br>3200 RIO LINDA BLVD<br>SACRAMENTO, CA 95815  | FINDS   | N/A    |

## EXECUTIVE SUMMARY

Registry ID:: 110065567782

|   |  |                     |
|---|--|---------------------|
| <p>FUEL STOP MINI MART<br/>3200 RIO LINDA BLVD<br/>SACRAMENTO, CA 95815</p> | <p>CERS HAZ WASTE<br/>CERS TANKS<br/>HAZNET<br/>GEPaid: CAL000297809</p> <p>CERS<br/>HWTS</p>  | <p>N/A</p>          |
| <p>FARUK FULL STOP<br/>3200 RIO LINDA BLVD<br/>SACRAMENTO, CA 95838</p>     | <p>RCRA-SQG<br/>EPA ID:: CAR000159814</p> <p>HAZNET<br/>GEPaid: CAR000159814</p> <p>HWTS</p>   | <p>CAR000159814</p> |
| <p>FARUK FULL STOP<br/>3200 RIO LINDA BLVD<br/>SACRAMENTO, CA 95838</p>     | <p>FINDS<br/>Registry ID:: 110020745648</p> <p>ECHO<br/>Registry ID: 110020745648</p>  | <p>N/A</p>          |
| <p>ARCADE SHELL SERVICE<br/>3200 RIO LINDA BLV<br/>DEL PASO HEIGHTS, CA</p> | <p>EDR Hist Auto</p>   | <p>N/A</p>          |
| <p>FULL STOP MINIMART<br/>3200 RIO LINDA BLVD<br/>RIO LINDA, CA 95815</p>   | <p>LUST<br/>Database: LUST REG 5, Date of Government Version: 07/01/2008<br/>Database: LUST, Date of Government Version: 12/02/2022<br/>Status: Completed - Case Closed<br/>Status: Remedial action (cleanup) Underway<br/>Global Id: T0606701131</p> <p>Sacramento Co. CS<br/>Facility Id: RO0001400</p> <p>Cortese<br/>Cleanup Status: COMPLETED - CASE CLOSED</p> <p>CERS</p> | <p>N/A</p>          |
| <p>FULL STOP MINIMART<br/>3200 RIO LINDA BLVD<br/>SACRAMENTO, CA</p>        | <p>RGA LUST</p>  | <p>N/A</p>          |
| <p>FULL STOP MINI MART<br/>3200 RIO LINDA BLVD<br/>SACRAMENTO, CA 95815</p> | <p>HWTS</p>  | <p>N/A</p>          |
| <p>FUEL STOP MINI MART<br/>3200 RIO LINDA BLVD<br/>SACRAMENTO, CA 95815</p> | <p>Sacramento Co. ML</p>   | <p>N/A</p>          |

## EXECUTIVE SUMMARY

|  |   |              |
|--|---|--------------|
| SAMEER INC DBA FUEL<br>3200 RIO LINDA BLVD<br>SACRAMENTO, CA 95815 | RCRA NonGen / NLR<br>EPA ID:: CAL000297809  | CAL000297809 |
| SAMEER INC DBA FUEL<br>3200 RIO LINDA BLVD<br>SACRAMENTO, CA 95815 | ECHO<br>Registry ID: 110070589475   | N/A          |
| GERWER SHELL SERVICE<br>3200 RIO LINDA BLV<br>SACRAMENTO, CA       | EDR Hist Auto   | N/A          |
| FULL STOP MINI MART<br>3200 RIO LINDA BLVD<br>SACRAMENTO, CA 95815 | UST<br>Database: UST, Date of Government Version: 12/02/2022<br>Facility Id: FA0005745                            | N/A          |
| FULL STOP MINI MART<br>3200 RIO LINDA BL<br>SACRAMENTO, CA 95815   | Sacramento Co. ML<br>Facility Status: Inactive. Included on a listing no longer updated.<br>Facility Id: U0178288 | N/A          |
| ALLADIN SELF SERVICE<br>3200 RIO LINDA BL<br>SACRAMENTO, CA 95815  | Sacramento Co. ML<br>Facility Status: Inactive. Included on a listing no longer updated.<br>Facility Id: U0178288 | N/A          |
| FUEL STOP<br>3200 RIO LINDA BL<br>SACRAMENTO, CA 95815             | Sacramento Co. ML<br>Facility Status: Inactive. Included on a listing no longer updated.<br>Facility Id: U0178288 | N/A          |

### DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

### STANDARD ENVIRONMENTAL RECORDS

#### ***Lists of Federal NPL (Superfund) sites***

NPL..... National Priority List

## EXECUTIVE SUMMARY

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

### ***Lists of Federal Delisted NPL sites***

Delisted NPL..... National Priority List Deletions

### ***Lists of Federal sites subject to CERCLA removals and CERCLA orders***

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

### ***Lists of Federal CERCLA sites with NFRAP***

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

### ***Lists of Federal RCRA facilities undergoing Corrective Action***

CORRACTS..... Corrective Action Report

### ***Lists of Federal RCRA TSD facilities***

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

### ***Lists of Federal RCRA generators***

RCRA-LQG..... RCRA - Large 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  
US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROLS..... Institutional Controls Sites List

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

ERNS..... Emergency Response Notification System

### ***Lists of state and tribal landfills and solid waste disposal facilities***

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

### ***Lists of state and tribal leaking storage tanks***

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land  
CPS-SLIC..... Statewide SLIC Cases

### ***Lists of state and tribal registered storage tanks***

FEMA UST..... Underground Storage Tank Listing  
AST..... Aboveground Petroleum Storage Tank Facilities  
INDIAN UST..... Underground Storage Tanks on Indian Land

### ***Lists of state and tribal voluntary cleanup sites***

INDIAN VCP..... Voluntary Cleanup Priority Listing

## EXECUTIVE SUMMARY

VCP..... Voluntary Cleanup Program Properties

### ***Lists of state and tribal brownfield 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

ODI..... Open Dump Inventory

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

IHS OPEN DUMPS..... Open Dumps on Indian Land

#### ***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL..... Delisted National Clandestine Laboratory Register

SCH..... School Property Evaluation Program

CDL..... Clandestine Drug Labs

Toxic Pits..... Toxic Pits Cleanup Act Sites

US CDL..... National Clandestine Laboratory Register

#### ***Local Land Records***

LIENS..... Environmental Liens Listing

LIENS 2..... CERCLA Lien Information

DEED..... Deed Restriction Listing

#### ***Records of Emergency Release Reports***

HMIRS..... Hazardous Materials Information Reporting System

CHMIRS..... California Hazardous Material Incident Report System

LDS..... Land Disposal Sites Listing

MCS..... Military Cleanup Sites Listing

SPILLS 90..... SPILLS 90 data from FirstSearch

#### ***Other Ascertainable Records***

FUDS..... Formerly Used Defense Sites

DOD..... Department of Defense Sites

SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing

US FIN ASSUR..... Financial Assurance Information

EPA WATCH LIST..... EPA WATCH LIST

2020 COR ACTION..... 2020 Corrective Action Program List

TSCA..... Toxic Substances Control Act

TRIS..... Toxic Chemical Release Inventory System

## EXECUTIVE SUMMARY

|                              |   |
|------------------------------|---|
| 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  |
| 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   |
| DOCKET HWC.....              | Hazardous Waste Compliance Docket Listing   |
| UXO.....                     | Unexploded Ordnance Sites   |
| FUELS PROGRAM.....           | EPA Fuels Program Registered Listing  |
| PFAS NPL.....                | Superfund Sites with PFAS Detections Information  |
| PFAS FEDERAL SITES.....      | Federal Sites PFAS Information  |
| PFAS TSCA.....               | PFAS Manufacture and Imports Information  |
| PFAS RCRA MANIFEST.....      | PFAS Transfers Identified In the RCRA Database Listing  |
| PFAS ATSDR.....              | PFAS Contamination Site Location Listing  |
| PFAS WQP.....                | Ambient Environmental Sampling for PFAS   |
| PFAS NPDES.....              | Clean Water Act Discharge Monitoring Information  |
| PFAS ECHO.....               | Facilities in Industries that May Be Handling PFAS Listing  |
| PFAS ECHO FIRE TRAINING..... | Facilities in Industries that May Be Handling PFAS Listing  |
| PFAS PART 139 AIRPORT.....   | All Certified Part 139 Airports PFAS Information Listing  |
| AQUEOUS FOAM NRC.....        | Aqueous Foam Related Incidents Listing  |
| PFAS.....                    | PFAS Contamination Site Location Listing  |
| AQUEOUS FOAM.....            | Former Fire Training Facility Assessments Listing   |
| CUPA Listings.....           | CUPA Resources List   |
| DRYCLEANERS.....             | Cleaner Facilities  |
| EML.....                     | Emissions Inventory Data  |
| ENF.....                     | Enforcement Action Listing  |
| Financial Assurance.....     | Financial Assurance Information Listing   |
| ICE.....                     | ICE   |
| HWP.....                     | EnviroStor Permitted Facilities Listing   |
| HWT.....                     | Registered Hazardous Waste Transporter Database   |
| MINES.....                   | Mines Site Location Listing   |
| MWMP.....                    | Medical Waste Management Program Listing  |
| NPDES.....                   | NPDES Permits Listing   |
| PEST LIC.....                | Pesticide Regulation Licenses Listing   |
| PROC.....                    | Certified Processors Database   |
| Notify 65.....               | Proposition 65 Records  |
| HAZMAT.....                  | Hazardous Material Facilities   |

## EXECUTIVE SUMMARY

|                          |  |
|--------------------------|--|
| 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 |
| NON-CASE INFO.....       | NON-CASE INFO (GEOTRACKER)                 |
| OTHER OIL GAS.....       | OTHER OIL & GAS (GEOTRACKER)               |
| PROD WATER PONDS.....    | PROD WATER PONDS (GEOTRACKER)              |
| SAMPLING POINT.....      | SAMPLING POINT (GEOTRACKER)                |
| WELL STIM PROJ.....      | Well Stimulation Project (GEOTRACKER)      |
| MINES MRDS.....          | Mineral Resources Data System              |

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

|                       |   |
|-----------------------|---|
| EDR MGP.....          | EDR Proprietary Manufactured Gas Plants |
| EDR Hist Cleaner..... | EDR Exclusive Historical Cleaners       |

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

|             |  |
|-------------|--|
| RGA LF..... | Recovered Government Archive Solid Waste Facilities List |
|-------------|--|

### 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

#### ***Lists of state- and tribal (Superfund) equivalent sites***

RESPONSE: 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.

A review of the RESPONSE list, as provided by EDR, has revealed that there are 3 RESPONSE sites

## EXECUTIVE SUMMARY

within approximately 1 mile of the target property.

| <u>Equal/Higher Elevation</u>   | <u>Address</u>            | <u>Direction / Distance</u>      | <u>Map ID</u> | <u>Page</u> |
|---|---------------------------|----------------------------------|---------------|-------------|
| <b>SONOMA AVENUE SITE</b><br>Database: RESPONSE, Date of Government Version: 10/24/2022<br>Status: Certified<br>Facility Id: 34990001   | <b>1035 SONOMA AVENUE</b> | <b>ESE 1/8 - 1/4 (0.165 mi.)</b> | <b>C30</b>    | <b>83</b>   |
| <b>HARRIS AVENUE PCB SI</b><br>Database: RESPONSE, Date of Government Version: 10/24/2022<br>Status: Certified<br>Facility Id: 34330035 | <b>627 HARRIS AVE</b>     | <b>NNW 1/2 - 1 (0.947 mi.)</b>   | <b>F40</b>    | <b>145</b>  |

| <u>Lower Elevation</u>  | <u>Address</u>      | <u>Direction / Distance</u>  | <u>Map ID</u> | <u>Page</u> |
|---|---------------------|------------------------------|---------------|-------------|
| <b>STRAWBERRY MANOR/PCB</b><br>Database: RESPONSE, Date of Government Version: 10/24/2022<br>Status: Certified<br>Facility Id: 34330034 | <b>188 OLMSTEAD</b> | <b>W 1/2 - 1 (0.934 mi.)</b> | <b>E38</b>    | <b>142</b>  |

### ***Lists of state- and tribal hazardous waste facilities***

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database 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.

A review of the ENVIROSTOR list, as provided by EDR, and dated 10/24/2022 has revealed that there are 8 ENVIROSTOR sites within approximately 1 mile of the target property.

| <u>Equal/Higher Elevation</u>  | <u>Address</u>              | <u>Direction / Distance</u>      | <u>Map ID</u> | <u>Page</u> |
|--|-----------------------------|----------------------------------|---------------|-------------|
| <b>SONOMA AVENUE SITE</b><br>Facility Id: 34990001<br>Status: Certified                                    | <b>1035 SONOMA AVENUE</b>   | <b>ESE 1/8 - 1/4 (0.165 mi.)</b> | <b>C30</b>    | <b>83</b>   |
| <b>CLEANING CIRCUS</b><br>Facility Id: 34720063<br>Status: Refer: Other Agency                             | <b>3213 MARYSVILLE BOUL</b> | <b>E 1/2 - 1 (0.685 mi.)</b>     | <b>34</b>     | <b>104</b>  |
| <b>DEL PASO HEIGHTS ES</b><br>Facility Id: 60001467<br>Status: Inactive - Needs Evaluation                 | <b>590 MOREY AVENUE</b>     | <b>NNW 1/2 - 1 (0.733 mi.)</b>   | <b>35</b>     | <b>110</b>  |
| <b>TUP BOTTLING FACILIT</b><br>Facility Id: 60000509<br>Status: Certified O&M - Land Use Restrictions Only | <b>2670 LAND AVE</b>        | <b>SE 1/2 - 1 (0.902 mi.)</b>    | <b>36</b>     | <b>112</b>  |
| <b>HARRIS AVENUE PCB SI</b><br>Facility Id: 34330035   | <b>627 HARRIS AVE</b>       | <b>NNW 1/2 - 1 (0.947 mi.)</b>   | <b>F40</b>    | <b>145</b>  |

## EXECUTIVE SUMMARY

Status: Certified

|  |                             |                                |           |            |
|--|-----------------------------|--------------------------------|-----------|------------|
| <b>AMERICAN POLY-THERM</b><br>Facility Id: 34300001<br>Status: No Further Action | <b>1636 KATHLEEN AVENUE</b> | <b>ESE 1/2 - 1 (0.962 mi.)</b> | <b>41</b> | <b>150</b> |
|--|-----------------------------|--------------------------------|-----------|------------|

|   |                         |                               |           |            |
|---|-------------------------|-------------------------------|-----------|------------|
| <b>RT METRO</b><br>Facility Id: 34280146<br>Status: No Further Action | <b>2700 ACADEMY WAY</b> | <b>SE 1/2 - 1 (0.997 mi.)</b> | <b>42</b> | <b>154</b> |
|---|-------------------------|-------------------------------|-----------|------------|

| <u>Lower Elevation</u>  | <u>Address</u>      | <u>Direction / Distance</u>  | <u>Map ID</u> | <u>Page</u> |
|---|---------------------|------------------------------|---------------|-------------|
| <b>STRAWBERRY MANOR/PCB</b><br>Facility Id: 34330034<br>Status: Certified | <b>188 OLMSTEAD</b> | <b>W 1/2 - 1 (0.934 mi.)</b> | <b>E38</b>    | <b>142</b>  |

### ADDITIONAL ENVIRONMENTAL RECORDS

#### **Local Lists of Hazardous waste / Contaminated Sites**

HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there are 3 HIST Cal-Sites sites within approximately 1 mile of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u>            | <u>Direction / Distance</u>      | <u>Map ID</u> | <u>Page</u> |
|-------------------------------|---------------------------|----------------------------------|---------------|-------------|
| <b>SONOMA AVENUE SITE</b>     | <b>1035 SONOMA AVENUE</b> | <b>ESE 1/8 - 1/4 (0.165 mi.)</b> | <b>C30</b>    | <b>83</b>   |
| <b>HARRIS AVENUE PCB SI</b>   | <b>627 HARRIS AVE</b>     | <b>NNW 1/2 - 1 (0.947 mi.)</b>   | <b>F40</b>    | <b>145</b>  |
| <u>Lower Elevation</u>        | <u>Address</u>            | <u>Direction / Distance</u>      | <u>Map ID</u> | <u>Page</u> |
| STRAWBERRY MANOR PCB          | 188 OLMSTEAD DR           | W 1/2 - 1 (0.934 mi.)            | E37           | 140         |

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 01/05/2023 has revealed that there is 1 CERS HAZ WASTE site within approximately 0.25 miles of the target property.

| <u>Lower Elevation</u>      | <u>Address</u>        | <u>Direction / Distance</u>      | <u>Map ID</u> | <u>Page</u> |
|-----------------------------|-----------------------|----------------------------------|---------------|-------------|
| <b>CITY OF SAC - WELL 1</b> | <b>851 ACACIA AVE</b> | <b>SSW 1/8 - 1/4 (0.198 mi.)</b> | <b>D31</b>    | <b>95</b>   |

## EXECUTIVE SUMMARY

### **Local Lists of Registered Storage Tanks**

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 2 SWEEPS UST sites within approximately 0.25 miles of the target property.

| <u>Equal/Higher Elevation</u>  | <u>Address</u>             | <u>Direction / Distance</u>      | <u>Map ID</u> | <u>Page</u> |
|--|----------------------------|----------------------------------|---------------|-------------|
| <b>DAVE SMITH</b><br>Comp Number: 58461                                    | <b>3300 RIO LINDA BLVD</b> | <b>N 0 - 1/8 (0.109 mi.)</b>     | <b>B27</b>    | <b>80</b>   |
| <b>ETHAN BROWNING</b><br>Status: A<br>Tank Status: A<br>Comp Number: 57759 | <b>1045 SONOMA AVE</b>     | <b>ESE 1/8 - 1/4 (0.155 mi.)</b> | <b>C28</b>    | <b>81</b>   |

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites 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> |
|---|--------------------------|----------------------------------|---------------|-------------|
| <b>SMITTY'S DRIVE-INN</b><br>Facility Id: 00000058461 | <b>3300 RIO LINDA BL</b> | <b>N 0 - 1/8 (0.109 mi.)</b>     | <b>B25</b>    | <b>79</b>   |
| <b>ETHAN BROWN</b><br>Facility Id: 00000057759        | <b>1045 SONOMA AV</b>    | <b>ESE 1/8 - 1/4 (0.155 mi.)</b> | <b>C29</b>    | <b>82</b>   |

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 2 CA FID UST sites 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> |
|---|----------------------------|----------------------------------|---------------|-------------|
| <b>DAVE SMITH</b><br>Facility Id: 34001359<br>Status: I     | <b>3300 RIO LINDA BLVD</b> | <b>N 0 - 1/8 (0.109 mi.)</b>     | <b>B27</b>    | <b>80</b>   |
| <b>ETHAN BROWNING</b><br>Facility Id: 34007249<br>Status: A | <b>1045 SONOMA AVE</b>     | <b>ESE 1/8 - 1/4 (0.155 mi.)</b> | <b>C28</b>    | <b>81</b>   |

## EXECUTIVE SUMMARY

### **Other Ascertainable Records**

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/06/2023 has revealed that there are 2 RCRA NonGen / NLR sites 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> |
|--|-------------------|-----------------------------|---------------|-------------|
| MARIA SANTILLAN<br>EPA ID:: CAC002987422 | 1015 RIVERA DRIVE | NE 1/8 - 1/4 (0.216 mi.)    | 33            | 101         |

| <u>Lower Elevation</u>            | <u>Address</u>      | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|-----------------------------------|---------------------|-----------------------------|---------------|-------------|
| WELL 143<br>EPA ID:: CAL000442185 | 3001 RIO LINDA BLVD | S 1/8 - 1/4 (0.201 mi.)     | D32           | 99          |

CA BOND EXP. 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.

A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there are 2 CA BOND EXP. PLAN sites within approximately 1 mile of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u>      | <u>Direction / Distance</u>  | <u>Map ID</u> | <u>Page</u> |
|-------------------------------|---------------------|------------------------------|---------------|-------------|
| HARRIS AVENUE PCB SI          | 627 HARRIS AVENUE   | NNW 1/2 - 1 (0.947 mi.)      | F39           | 145         |
| <u>Lower Elevation</u>        | <u>Address</u>      | <u>Direction / Distance</u>  | <u>Map ID</u> | <u>Page</u> |
| <b>STRAWBERRY MANOR/PCB</b>   | <b>188 OLMSTEAD</b> | <b>W 1/2 - 1 (0.934 mi.)</b> | <b>E38</b>    | <b>142</b>  |

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSTATES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 HIST CORTESE site within approximately 0.5 miles of the target property.

| <u>Equal/Higher Elevation</u>                 | <u>Address</u>            | <u>Direction / Distance</u>      | <u>Map ID</u> | <u>Page</u> |
|---|---------------------------|----------------------------------|---------------|-------------|
| <b>SONOMA AVENUE SITE</b><br>Reg Id: 34990001 | <b>1035 SONOMA AVENUE</b> | <b>ESE 1/8 - 1/4 (0.165 mi.)</b> | <b>C30</b>    | <b>83</b>   |

## EXECUTIVE SUMMARY

Sacramento Co. ML: Sacramento County Master List. Any business that has hazardous materials on site - hazardous materials storage sites, underground storage tanks, waste generators.

A review of the Sacramento Co. ML list, as provided by EDR, and dated 11/07/2022 has revealed that there are 3 Sacramento Co. ML sites 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> |
|---|--------------------------|----------------------------------|---------------|-------------|
| <b>SMITTY'S DRIVE-INN</b><br>Facility Status: Inactive. Included on a listing no longer updated.<br>Facility Id: U0178387 | <b>3300 RIO LINDA BL</b> | <b>N 0 - 1/8 (0.109 mi.)</b>     | <b>B25</b>    | <b>79</b>   |
| <b>ETHAN BROWN</b><br>Facility Status: Inactive. Included on a listing no longer updated.                                 | <b>1045 SONOMA AV</b>    | <b>ESE 1/8 - 1/4 (0.155 mi.)</b> | <b>C29</b>    | <b>82</b>   |
| <u>Lower Elevation</u>  | <u>Address</u>           | <u>Direction / Distance</u>      | <u>Map ID</u> | <u>Page</u> |
| <b>CITY OF SAC - WELL 1</b>   | <b>851 ACACIA AVE</b>    | <b>SSW 1/8 - 1/4 (0.198 mi.)</b> | <b>D31</b>    | <b>95</b>   |

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR Hist Auto: 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.

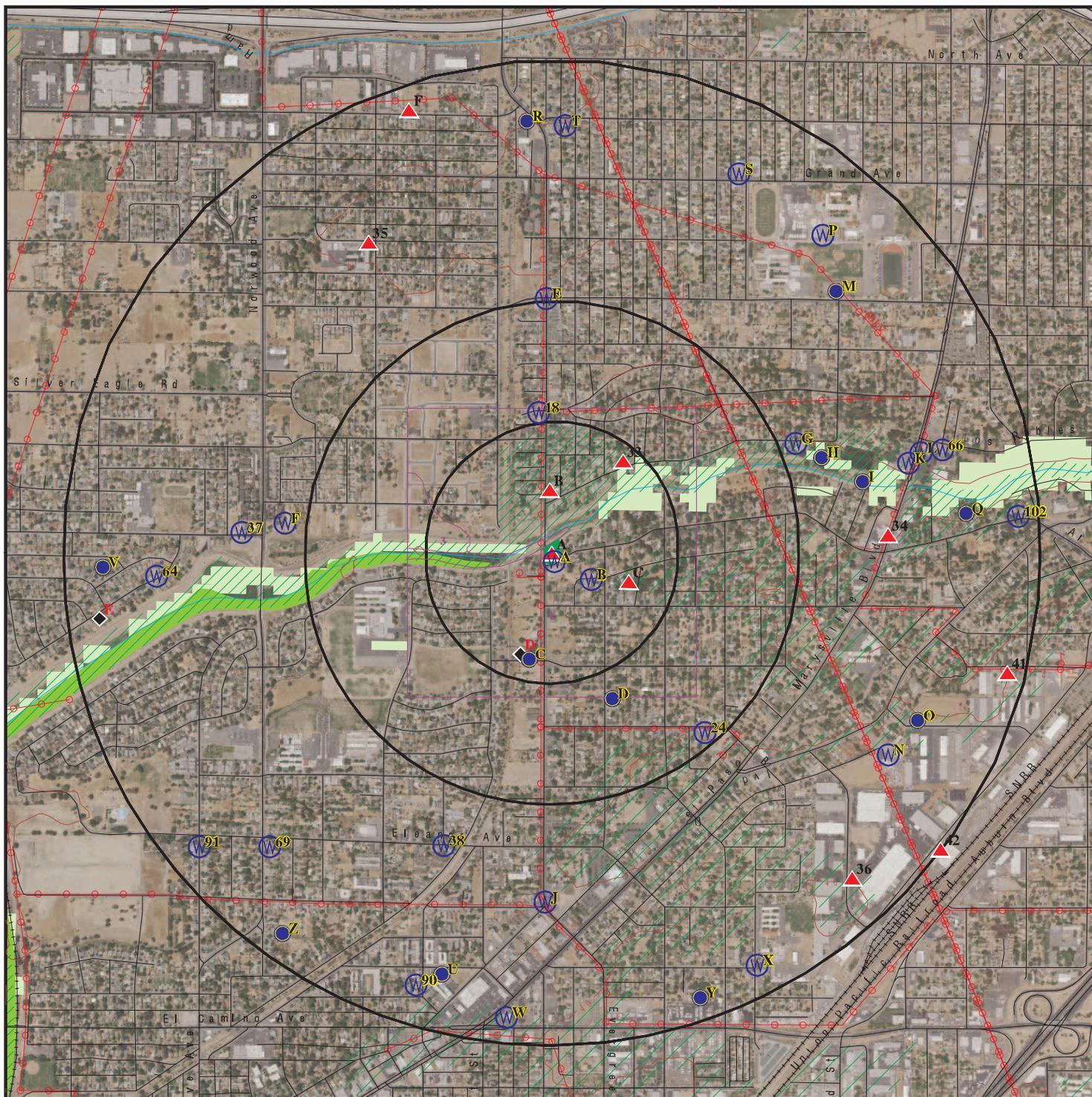
A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within approximately 0.125 miles of the target property.

| <u>Equal/Higher Elevation</u> | <u>Address</u>      | <u>Direction / Distance</u> | <u>Map ID</u> | <u>Page</u> |
|-------------------------------|---------------------|-----------------------------|---------------|-------------|
| SMITTYS                       | 3300 RIO LINDA BLVD | N 0 - 1/8 (0.109 mi.)       | B26           | 80          |

## EXECUTIVE SUMMARY

There were no unmapped sites in this report.

# OVERVIEW MAP - 7287764.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sarita Prasad SAC  
 ADDRESS: 3200 Rio Linda Boulevard  
 Sacramento CA 95815  
 LAT/LONG: 38.625387 / 121.445858

CLIENT: Soar Environmental Consulting, Inc.  
 CONTACT: Marcus Patton  
 INQUIRY #: 7287764.2s  
 DATE: March 23, 2023 1:42 pm



## MAP FINDINGS SUMMARY

| Database  | Search<br>Distance<br>(Miles) | Target<br>Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total<br>Plotted |
|---|-------------------------------|--------------------|-------|-----------|-----------|---------|-----|------------------|
| <b>STANDARD ENVIRONMENTAL RECORDS</b>   |                               |                    |       |           |           |         |     |                  |
| <b><i>Lists of Federal NPL (Superfund) sites</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>Lists of Federal Delisted NPL sites</i></b>                                     |                               |                    |       |           |           |         |     |                  |
| Delisted NPL  | 1.000                         |                    | 0     | 0         | 0         | 0       | NR  | 0                |
| <b><i>Lists of Federal sites subject to CERCLA removals and CERCLA orders</i></b>     |                               |                    |       |           |           |         |     |                  |
| FEDERAL FACILITY  | 0.500                         |                    | 0     | 0         | 0         | NR      | NR  | 0                |
| SEMS  | 0.500                         |                    | 0     | 0         | 0         | NR      | NR  | 0                |
| <b><i>Lists of Federal CERCLA sites with NFRAP</i></b>                                |                               |                    |       |           |           |         |     |                  |
| SEMS-ARCHIVE  | 0.500                         |                    | 0     | 0         | 0         | NR      | NR  | 0                |
| <b><i>Lists of Federal RCRA facilities undergoing Corrective Action</i></b>           |                               |                    |       |           |           |         |     |                  |
| CORRACTS  | 1.000                         |                    | 0     | 0         | 0         | 0       | NR  | 0                |
| <b><i>Lists of Federal RCRA TSD facilities</i></b>                                    |                               |                    |       |           |           |         |     |                  |
| RCRA-TSDF   | 0.500                         |                    | 0     | 0         | 0         | NR      | NR  | 0                |
| <b><i>Lists of Federal RCRA generators</i></b>  |                               |                    |       |           |           |         |     |                  |
| RCRA-LQG  | 0.250                         |                    | 0     | 0         | NR        | NR      | NR  | 0                |
| RCRA-SQG  | 0.250                         | 1                  | 0     | 0         | NR        | NR      | NR  | 1                |
| 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 CONTROLS  | 0.500                         |                    | 0     | 0         | 0         | NR      | NR  | 0                |
| <b><i>Federal ERNS list</i></b>   |                               |                    |       |           |           |         |     |                  |
| ERNS  | 0.001                         |                    | 0     | NR        | NR        | NR      | NR  | 0                |
| <b><i>Lists of state- and tribal (Superfund) equivalent sites</i></b>                 |                               |                    |       |           |           |         |     |                  |
| RESPONSE  | 1.000                         |                    | 0     | 1         | 0         | 2       | NR  | 3                |
| <b><i>Lists of state- and tribal hazardous waste facilities</i></b>                   |                               |                    |       |           |           |         |     |                  |
| ENVIROSTOR  | 1.000                         |                    | 0     | 1         | 0         | 7       | NR  | 8                |
| <b><i>Lists of state and tribal landfills and solid waste disposal facilities</i></b> |                               |                    |       |           |           |         |     |                  |
| SWF/LF  | 0.500                         |                    | 0     | 0         | 0         | NR      | NR  | 0                |

## MAP FINDINGS SUMMARY

| Database   | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|--|-------------------------|-----------------|-------|-----------|-----------|---------|-----|---------------|
| <b><i>Lists of state and tribal leaking storage tanks</i></b>      |                         |                 |       |           |           |         |     |               |
| LUST   | 0.500                   | 1               | 0     | 0         | 0         | NR      | NR  | 1             |
| INDIAN LUST  | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| CPS-SLIC   | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| Sacramento Co. CS  | 0.500                   | 1               | 0     | 0         | 0         | NR      | NR  | 1             |
| <b><i>Lists of state and tribal registered storage tanks</i></b>   |                         |                 |       |           |           |         |     |               |
| FEMA UST   | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| UST  | 0.250                   | 3               | 0     | 0         | NR        | NR      | NR  | 3             |
| AST  | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| INDIAN UST   | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| <b><i>Lists of state and tribal voluntary cleanup sites</i></b>    |                         |                 |       |           |           |         |     |               |
| INDIAN VCP   | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| VCP  | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| <b><i>Lists of state and tribal brownfield sites</i></b>           |                         |                 |       |           |           |         |     |               |
| BROWNFIELDS  | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| <b><u>ADDITIONAL ENVIRONMENTAL RECORDS</u></b>                     |                         |                 |       |           |           |         |     |               |
| <b><i>Local Brownfield lists</i></b>                               |                         |                 |       |           |           |         |     |               |
| US BROWNFIELDS   | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| <b><i>Local Lists of Landfill / Solid Waste Disposal Sites</i></b> |                         |                 |       |           |           |         |     |               |
| WMUDS/SWAT   | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| SWRCY  | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| HAULERS  | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| INDIAN ODI   | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| ODI  | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| DEBRIS REGION 9  | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| IHS OPEN DUMPS   | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| <b><i>Local Lists of Hazardous waste / Contaminated Sites</i></b>  |                         |                 |       |           |           |         |     |               |
| US HIST CDL  | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| HIST Cal-Sites   | 1.000                   |                 | 0     | 1         | 0         | 2       | NR  | 3             |
| SCH  | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| CDL  | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| CERS HAZ WASTE   | 0.250                   | 1               | 0     | 1         | NR        | NR      | NR  | 2             |
| Toxic Pits   | 1.000                   |                 | 0     | 0         | 0         | 0       | NR  | 0             |
| US CDL   | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| <b><i>Local Lists of Registered Storage Tanks</i></b>              |                         |                 |       |           |           |         |     |               |
| SWEEPS UST   | 0.250                   | 1               | 1     | 1         | NR        | NR      | NR  | 3             |
| HIST UST   | 0.250                   | 1               | 1     | 1         | NR        | NR      | NR  | 3             |
| CERS TANKS   | 0.250                   | 1               | 0     | 0         | NR        | NR      | NR  | 1             |
| CA FID UST   | 0.250                   | 1               | 1     | 1         | NR        | NR      | NR  | 3             |

## 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>Local Land Records</b>                   |                         |                 |       |           |           |         |     |               |
| LIENS                                       | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| LIENS 2                                     | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| DEED  | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| <b>Records of Emergency Release Reports</b> |                         |                 |       |           |           |         |     |               |
| HMIRS                                       | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| CHMIRS                                      | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| LDS   | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| MCS   | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| SPILLS 90                                   | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| <b>Other Ascertainable Records</b>          |                         |                 |       |           |           |         |     |               |
| RCRA NonGen / NLR                           | 0.250                   | 1               | 0     | 2         | NR        | NR      | NR  | 3             |
| FUDS  | 1.000                   |                 | 0     | 0         | 0         | 0       | NR  | 0             |
| DOD   | 1.000                   |                 | 0     | 0         | 0         | 0       | NR  | 0             |
| SCRD DRYCLEANERS                            | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| US FIN ASSUR                                | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| EPA WATCH LIST                              | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| 2020 COR ACTION                             | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| TSCA  | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| TRIS  | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| SSTS  | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| ROD   | 1.000                   |                 | 0     | 0         | 0         | 0       | NR  | 0             |
| RMP   | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| RAATS                                       | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| PRP   | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| PADS  | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| ICIS  | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| FTTS  | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| MLTS  | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| COAL ASH DOE                                | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| COAL ASH EPA                                | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| PCB TRANSFORMER                             | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| RADINFO                                     | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| HIST FTTS                                   | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| DOT OPS                                     | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| CONSENT                                     | 1.000                   |                 | 0     | 0         | 0         | 0       | NR  | 0             |
| INDIAN RESERV                               | 1.000                   |                 | 0     | 0         | 0         | 0       | NR  | 0             |
| FUSRAP                                      | 1.000                   |                 | 0     | 0         | 0         | 0       | NR  | 0             |
| UMTRA                                       | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| LEAD SMELTERS                               | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| US AIRS                                     | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| US MINES                                    | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| ABANDONED MINES                             | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| FINDS                                       | 0.001                   | 3               | 0     | NR        | NR        | NR      | NR  | 3             |
| ECHO  | 0.001                   | 2               | 0     | NR        | NR        | NR      | NR  | 2             |
| DOCKET HWC                                  | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| UXO   | 1.000                   |                 | 0     | 0         | 0         | 0       | NR  | 0             |
| FUELS PROGRAM                               | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |

## MAP FINDINGS SUMMARY

| Database                | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|-------------------------|-------------------------|-----------------|-------|-----------|-----------|---------|-----|---------------|
| PFAS NPL                | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| PFAS FEDERAL SITES      | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| PFAS TSCA               | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| PFAS RCRA MANIFEST      | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| PFAS ATSDR              | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| PFAS WQP                | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| PFAS NPDES              | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| PFAS ECHO               | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| PFAS ECHO FIRE TRAINING | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| PFAS PART 139 AIRPORT   | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| AQUEOUS FOAM NRC        | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| PFAS                    | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| AQUEOUS FOAM TP         |                         |                 | NR    | NR        | NR        | NR      | NR  | 0             |
| CA BOND EXP. PLAN       | 1.000                   |                 | 0     | 0         | 0         | 2       | NR  | 2             |
| Cortese                 | 0.500                   | 1               | 0     | 0         | 0         | NR      | NR  | 1             |
| CUPA Listings           | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| DRYCLEANERS             | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| EMI                     | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| ENF                     | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| Financial Assurance     | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| ICE                     | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| HIST CORTESE            | 0.500                   | 1               | 0     | 1         | 0         | NR      | NR  | 2             |
| HWP                     | 1.000                   |                 | 0     | 0         | 0         | 0       | NR  | 0             |
| HWT                     | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| HAZNET                  | 0.001                   | 3               | 0     | NR        | NR        | NR      | NR  | 3             |
| MINES                   | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| Sacramento Co. ML       | 0.250                   | 4               | 1     | 2         | NR        | NR      | NR  | 7             |
| MWMP                    | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| NPDES                   | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| PEST LIC                | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| PROC                    | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| Notify 65               | 1.000                   |                 | 0     | 0         | 0         | 0       | NR  | 0             |
| HAZMAT                  | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| UIC                     | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| UIC GEO                 | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| WASTEWATER PITS         | 0.500                   |                 | 0     | 0         | 0         | NR      | NR  | 0             |
| WDS                     | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| WIP                     | 0.250                   |                 | 0     | 0         | NR        | NR      | NR  | 0             |
| MILITARY PRIV SITES     | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| PROJECT                 | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| WDR                     | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| CIWQS                   | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| CERS                    | 0.001                   | 2               | 0     | NR        | NR        | NR      | NR  | 2             |
| NON-CASE INFO           | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| OTHER OIL GAS           | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| PROD WATER PONDS        | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| SAMPLING POINT          | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| WELL STIM PROJ          | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| MINES MRDS              | 0.001                   |                 | 0     | NR        | NR        | NR      | NR  | 0             |
| HWTS TP                 |                         | 5               | NR    | NR        | NR        | NR      | NR  | 5             |

### EDR HIGH RISK HISTORICAL RECORDS

#### **EDR Exclusive Records**

|         |       |  |   |   |   |   |    |   |
|---------|-------|--|---|---|---|---|----|---|
| EDR MGP | 1.000 |  | 0 | 0 | 0 | 0 | NR | 0 |
|---------|-------|--|---|---|---|---|----|---|

## MAP FINDINGS SUMMARY

| Database   | Search<br>Distance<br>(Miles) | Target<br>Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total<br>Plotted |
|--|-------------------------------|--------------------|-------|-----------|-----------|---------|-----|------------------|
| EDR Hist Auto                                    | 0.125                         | 2                  | 1     | NR        | NR        | NR      | NR  | 3                |
| EDR Hist Cleaner                                 | 0.125                         |                    | 0     | NR        | NR        | NR      | NR  | 0                |
| <b><u>EDR RECOVERED GOVERNMENT ARCHIVES</u></b>  |                               |                    |       |           |           |         |     |                  |
| <b><i>Exclusive Recovered Govt. Archives</i></b> |                               |                    |       |           |           |         |     |                  |
| RGA LF   | 0.001                         |                    | 0     | NR        | NR        | NR      | NR  | 0                |
| RGA LUST   | 0.001                         | 1                  | 0     | NR        | NR        | NR      | NR  | 1                |
| - Totals --                                      |                               | 36                 | 5     | 12        | 0         | 13      | 0   | 66               |

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A1** 15287 SACRAMENTO COUNTY ENVIRONMENTAL MANAGEMENT  
**Target** 3200 RIO LINDA BLVD  
**Property** RIO LINDA, CA 95673

**FINDS** 1014673142  
N/A

**Site 1 of 24 in cluster A**

**Actual:** FINDS:  
**30 ft.** Registry ID: 110043364301

Click Here for FRS Facility Detail Report:  
Environmental Interest/Information System:  
LEAKING UNDERGROUND STORAGE TANK - ARRA  
  
Click this hyperlink while viewing on your computer to access  
additional FINDS: detail in the EDR Site Report.

**A2** FUEL STOP MINI MART & TIRE  
**Target** 3200 RIO LINDA BLVD  
**Property** SACRAMENTO, CA 95815

**UST** U004352982  
N/A

**Site 2 of 24 in cluster A**

**Actual:** UST:  
**30 ft.** Name: FUEL STOP MINI MART & TIRE  
Address: 3200 RIO LINDA BLVD  
City,State,Zip: SACRAMENTO, CA 95815  
Facility ID: FA0005745  
Permitting Agency: Sacramento County Environmental Management Department  
CERSID: 10217284  
Latitude: 38.6253800  
Longitude: -121.445850  
Owner type: Not reported  
Facility type: Not reported  
Num of inuse ust: Not reported  
Num of closed ust: Not reported  
Num of oos ust: Not reported  
Epa region: Not reported  
Tribal lands: Not reported  
Tank owner name: Not reported  
Tank owner mailing address: Not reported  
Tank owner mailing city: Not reported  
Tank owner mailing zip: Not reported  
Tank owner mailing state: Not reported  
Tank operator name: Not reported  
Tank operator mailing address: Not reported  
Tank operator mailing city: Not reported  
Tank operator mailing zip: Not reported  
Tank operator mailing state: Not reported  
Tankidnumber: Not reported  
Tank status: Not reported  
Tank configuration: Not reported  
Tank closure date: Not reported  
Tank installation date: Not reported  
Tank num of compartments: Not reported  
Tank contents: Not reported  
Tank capacity gallons: Not reported  
Tank type: Not reported  
Tank pc construction: Not reported  
Tank pwpiping construction: Not reported  
Tank piping type: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FUEL STOP MINI MART & TIRE (Continued)**

**U004352982**

Tank piping construction: Not reported  
 Tank sacrificial anode: Not reported  
 Tank cp impressed current: Not reported  
 Tank cp shutoff: Not reported  
 Tank alarms: Not reported  
 Tank ball float: Not reported  
 Tank spill bucket: Not reported

**A3  
 Target  
 Property**

**RAMAGE ENVIROMENTAL  
 3200 RIO LINDA BLVD  
 SACRAMENTO, CA 95815**

**HAZNET S112923815  
 HWTS N/A**

**Site 3 of 24 in cluster A**

**Actual:  
 30 ft.**

HAZNET:  
 Name: RAMAGE ENVIROMENTAL  
 Address: 3200 RIO LINDA BLVD  
 Address 2: Not reported  
 City,State,Zip: SACRAMENTO, CA 95815  
 Contact: Joe Ramage  
 Telephone: 9163543250  
 Mailing Name: Not reported  
 Mailing Address: 3200 Rio Linda Blvd  
  
 Year: 2002  
 Gepaid: CAC002554808  
 TSD EPA ID: CAD044003556  
 CA Waste Code: 223 - Unspecified oil-containing waste  
 Disposal Method: H01 - Transfer Station  
 Tons: 0.8757

**Additional Info:**

Year: 2002  
 Gen EPA ID: CAC002554808  
  
 Shipment Date: 20020813  
 Creation Date: 1/27/2003 18:31:12  
 Receipt Date: 20020814  
 Manifest ID: 21854239  
 Trans EPA ID: CAD044003556  
 Trans Name: Not reported  
 Trans 2 EPA ID: Not reported  
 Trans 2 Name: Not reported  
 TSD EPA ID: CAD044003556  
 Trans Name: Not reported  
 TSD EPA ID: Not reported  
 TSD EPA Name: Not reported  
 Waste Code Description: 223 - Unspecified oil-containing waste  
 RCRA Code: Not reported  
 Meth Code: H01 - Transfer Station  
 Quantity Tons: 0.8757  
 Waste Quantity: 210  
 Quantity Unit: G  
 Additional Code 1: Not reported  
 Additional Code 2: Not reported  
 Additional Code 3: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**RAMAGE ENVIROMENTAL (Continued)**

**S112923815**

Additional Code 4: Not reported  
 Additional Code 5: Not reported

**HWTS:**

Name: RAMAGE ENVIROMENTAL  
 Address: 3200 RIO LINDA BLVD  
 Address 2: Not reported  
 City,State,Zip: SACRAMENTO, CA 95815  
 EPA ID: CAC002554808  
 Inactive Date: 03/18/2003  
 Create Date: 08/02/2002  
 Last Act Date: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 3200 RIO LINDA BLVD  
 Mailing Address 2: Not reported  
 Mailing City,State,Zip: SACRAMENTO, CA 95815  
 Owner Name: JOE RAMAGE  
 Owner Address: 3200 RIO LINDA BLVD  
 Owner Address 2: Not reported  
 Owner City,State,Zip: SACRAMENTO, CA 95815  
 Contact Name: JOE RAMAGE  
 Contact Address: 3200 RIO LINDA BLVD  
 Contact Address 2: Not reported  
 City,State,Zip: SACRAMENTO, CA 95815  
 Facility Status: Inactive  
 Facility Type: TEMPORARY  
 Category: STATE  
 Latitude: 38.624962  
 Longitude: -121.446168

**A4  
 Target  
 Property**

**ALLADIN SELF SERVICE  
 3200 RIO LINDA BLVD  
 SACRAMENTO, CA 95815**

**HIST UST U001615238  
 N/A**

**Site 4 of 24 in cluster A**

**Actual:  
 30 ft.**

**HIST UST:**  
 Name: ALLADIN SELF SERVICE  
 Address: 3200 RIO LINDA BLVD  
 City,State,Zip: SACRAMENTO, CA 95815  
 File Number: 0001ff26  
 URL: <https://documents.geotracker.waterboards.ca.gov/ustpdfs/pdf/0001ff26.pdf>  
 Region: STATE  
 Facility ID: 00000058657  
 Facility Type: Gas Station  
 Other Type: Not reported  
 Contact Name: ZAFFAR IQBAL  
 Telephone: 9169209723  
 Owner Name: MAXINE MOHAMMED  
 Owner Address: 368 YAMPA CIRCLE  
 Owner City,St,Zip: SACRAMENTO, CA 95838  
 Total Tanks: 0005

Tank Num: 001  
 Container Num: 1  
 Year Installed: Not reported  
 Tank Capacity: 00004000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALLADIN SELF SERVICE (Continued)**

**U001615238**

Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor

Tank Num: 002  
Container Num: 2  
Year Installed: Not reported  
Tank Capacity: 00004000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor

Tank Num: 003  
Container Num: 3  
Year Installed: Not reported  
Tank Capacity: 00005000  
Tank Used for: PRODUCT  
Type of Fuel: REGULAR  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor

Tank Num: 004  
Container Num: 4  
Year Installed: Not reported  
Tank Capacity: 00005000  
Tank Used for: PRODUCT  
Type of Fuel: REGULAR  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor

Tank Num: 005  
Container Num: 5  
Year Installed: Not reported  
Tank Capacity: 00008000  
Tank Used for: PRODUCT  
Type of Fuel: PREMIUM  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor

[Click here for Geo Tracker PDF:](#)

**A5  
Target  
Property**

**FULL STOP MINI MARKET  
3200 RIO LINDA BOULEVARD  
RIO LINDA, CA 95815**

**UST U003786594  
N/A**

**Site 5 of 24 in cluster A**

**Actual:  
30 ft.**

UST CLOSURE:  
Name: FULL STOP MINI MARKET  
Address: 3200 RIO LINDA BOULEVARD  
City,State,Zip: RIO LINDA, CA 95815  
Claim Number: Claim No. 15287  
Type: Closure Denials and Approved Orders  
Deadline Date: 7/9/2018  
Documents: 3200 Rio Linda Boulevard Rio Linda, CA 95815Notice, 3200 Rio Linda  
Boulevard Rio Linda, CA 95815Draft Order, 3200 Rio Linda Boulevard Rio

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FULL STOP MINI MARKET (Continued)**

**U003786594**

Linda, CA 95815 Review Summary Report  
 Comments: No Comments Received  
 Comments URL: Not reported  
 Response: Not reported  
 Response URL: Not reported  
 Comments2: Not reported  
 Comments2 URL: Not reported  
 Response2: Not reported  
 Response2 URL: Not reported  
 Closure: No Comments Received WQO\_2018\_0020\_UST (8/24/2018)  
 Closure URL: [https://geotracker.waterboards.ca.gov/regulators/deliverable\\_documents/8530823230/WQO\\_2018\\_15287\\_UST\\_Final.pdf](https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/8530823230/WQO_2018_15287_UST_Final.pdf)  
 Uniform: No Comments Received WQO\_2018\_0020\_UST (8/24/2018) Uniform Closure Letter (03/05/19)  
 Uniform URL: [https://geotracker.waterboards.ca.gov/regulators/deliverable\\_documents/7797991693/Uniform\\_Closure\\_Letter\\_Claim\\_15287.pdf](https://geotracker.waterboards.ca.gov/regulators/deliverable_documents/7797991693/Uniform_Closure_Letter_Claim_15287.pdf)

**A6  
 Target  
 Property**

**RIO LINDA GAS  
 3200 RIO LINDA BLVD  
 SACRAMENTO, CA 95815**

**HWTS S124564067  
 N/A**

**Site 6 of 24 in cluster A**

**Actual:  
 30 ft.**

**HWTS:**  
 Name: RIO LINDA GAS  
 Address: 3200 RIO LINDA BLVD  
 Address 2: Not reported  
 City,State,Zip: SACRAMENTO, CA 95815  
 EPA ID: CAC002217689  
 Inactive Date: 10/25/2000  
 Create Date: 10/05/1999  
 Last Act Date: Not reported  
 Mailing Name: Not reported  
 Mailing Address: 3200 RIO LINDA BLVD  
 Mailing Address 2: Not reported  
 Mailing City,State,Zip: SACRAMENTO, CA 958150000  
 Owner Name: MOHAMMED SARAK  
 Owner Address: 3200 RIO LINDA BLVD  
 Owner Address 2: Not reported  
 Owner City,State,Zip: SACRAMENTO 958150000  
 Contact Name: MOHAMMED SARAK-OWNER  
 Contact Address: 3200 RIO LINDA BLVD  
 Contact Address 2: Not reported  
 City,State,Zip: SACRAMENTO, CA 958150000  
 Facility Status: Inactive  
 Facility Type: TEMPORARY  
 Category: STATE  
 Latitude: 38.624962  
 Longitude: -121.446168

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A7** **FULL STOP MINIMART**  
**Target** **3200 RIO LINDA**  
**Property** **SACRAMENTO, CA 95815**

**HIST CORTESE** **S102319069**  
**N/A**

**Site 7 of 24 in cluster A**

**Actual:** HIST CORTESE:  
**30 ft.** edr\_fname: FULL STOP MINIMART  
edr\_fadd1: 3200 RIO LINDA  
City,State,Zip: SACRAMENTO, CA 95815  
Region: CORTESE  
Facility County Code: 34  
Reg By: LTNKA  
Reg Id: 341309

**A8** **FUEL STOP**  
**Target** **3200 RIO LINDA BLVD**  
**Property** **SACRAMENTO, CA 95815**

**SWEEPS UST** **S101590866**  
**CA FID UST** **N/A**

**Site 8 of 24 in cluster A**

**Actual:** SWEEPS UST:  
**30 ft.** Name: FUEL STOP  
Address: 3200 RIO LINDA BLVD  
City: SACRAMENTO  
Status: Active  
Comp Number: 58657  
Number: 1  
Board Of Equalization: 44-019455  
Referral Date: 03-30-90  
Action Date: 03-30-90  
Created Date: 02-29-88  
Owner Tank Id: 1  
SWRCB Tank Id: 34-000-058657-000001  
Tank Status: A  
Capacity: 8000  
Active Date: 03-30-90  
Tank Use: M.V. FUEL  
STG: P  
Content: REG UNLEADED  
Number Of Tanks: 5

Name: FUEL STOP  
Address: 3200 RIO LINDA BLVD  
City: SACRAMENTO  
Status: Active  
Comp Number: 58657  
Number: 1  
Board Of Equalization: 44-019455  
Referral Date: 03-30-90  
Action Date: 03-30-90  
Created Date: 02-29-88  
Owner Tank Id: 2  
SWRCB Tank Id: 34-000-058657-000002  
Tank Status: A  
Capacity: 5000  
Active Date: 03-30-90  
Tank Use: M.V. FUEL  
STG: P  
Content: LEADED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FUEL STOP (Continued)**

**S101590866**

Number Of Tanks: Not reported

Name: FUEL STOP  
Address: 3200 RIO LINDA BLVD  
City: SACRAMENTO  
Status: Active  
Comp Number: 58657  
Number: 1  
Board Of Equalization: 44-019455  
Referral Date: 03-30-90  
Action Date: 03-30-90  
Created Date: 02-29-88  
Owner Tank Id: 3  
SWRCB Tank Id: 34-000-058657-000003  
Tank Status: A  
Capacity: 5000  
Active Date: 03-30-90  
Tank Use: M.V. FUEL  
STG: P  
Content: LEADED  
Number Of Tanks: Not reported

Name: FUEL STOP  
Address: 3200 RIO LINDA BLVD  
City: SACRAMENTO  
Status: Active  
Comp Number: 58657  
Number: 1  
Board Of Equalization: 44-019455  
Referral Date: 03-30-90  
Action Date: 03-30-90  
Created Date: 02-29-88  
Owner Tank Id: 4  
SWRCB Tank Id: 34-000-058657-000004  
Tank Status: A  
Capacity: 4000  
Active Date: 12-14-92  
Tank Use: M.V. FUEL  
STG: P  
Content: PRM UNLEADED  
Number Of Tanks: Not reported

Name: FUEL STOP  
Address: 3200 RIO LINDA BLVD  
City: SACRAMENTO  
Status: Active  
Comp Number: 58657  
Number: 1  
Board Of Equalization: 44-019455  
Referral Date: 03-30-90  
Action Date: 03-30-90  
Created Date: 02-29-88  
Owner Tank Id: 5  
SWRCB Tank Id: 34-000-058657-000005  
Tank Status: A  
Capacity: 4000  
Active Date: 12-14-92

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FUEL STOP (Continued)**

**S101590866**

Tank Use: M.V. FUEL  
STG: P  
Content: PRM UNLEADED  
Number Of Tanks: Not reported

CA FID UST:

Facility ID: 34007257  
Regulated By: UTNKA  
Regulated ID: 00058657  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: Not reported  
Mail To: Not reported  
Mailing Address: 7860 DEER GLEN WAY  
Mailing Address 2: Not reported  
Mailing City,St,Zip: SACRAMENTO 95815  
Contact: Not reported  
Contact Phone: Not reported  
DUNs Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Active

**A9** **SAMEER INC DBA FUEL STOP MINI MART&TIRE**  
**Target** **3200 RIO LINDA BLVD**  
**Property** **SACRAMENTO, CA 95815**

**FINDS** **1023267165**  
**N/A**

**Site 9 of 24 in cluster A**

**Actual:**  
**30 ft.**

FINDS:  
Registry ID: 110065567782

[Click Here for FRS Facility Detail Report:](#)

Environmental Interest/Information System:  
STATE MASTER  
Registry ID: 110070589475

[Click Here for FRS Facility Detail Report:](#)

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

A10  
Target  
Property

FUEL STOP MINI MART & TIRE  
3200 RIO LINDA BLVD  
SACRAMENTO, CA 95815

CERS HAZ WASTE  
CERS TANKS  
HAZNET  
CERS  
HWTS

S113465917  
N/A

Site 10 of 24 in cluster A

Actual:  
30 ft.

CERS HAZ WASTE:

Name: FUEL STOP MINI MART & TIRE  
Address: 3200 RIO LINDA BLVD  
City,State,Zip: SACRAMENTO, CA 95815  
Site ID: 118295  
CERS ID: 10217284  
CERS Description: Hazardous Waste Generator

CERS TANKS:

Name: FUEL STOP MINI MART & TIRE  
Address: 3200 RIO LINDA BLVD  
City,State,Zip: SACRAMENTO, CA 95815  
Site ID: 118295  
CERS ID: 10217284  
CERS Description: Underground Storage Tank

HAZNET:

Name: FUEL STOP MINI MART & TIRE  
Address: 3200 RIO LINDA BLVD  
Address 2: Not reported  
City,State,Zip: SACRAMENTO, CA 958151238  
Contact: SULTAN KHAN  
Telephone: 9165197305  
Mailing Name: Not reported  
Mailing Address: 3200 RIO LINDA BL  
  
Year: 2010  
Gepaid: CAL000297809  
TSD EPA ID: CAD980887418  
CA Waste Code: 223 - Unspecified oil-containing waste  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Tons: 0.075

Additional Info:

Year: 2010  
Gen EPA ID: CAL000297809  
  
Shipment Date: 20100114  
Creation Date: 3/11/2010 18:30:23  
Receipt Date: 20100119  
Manifest ID: 002389109JJK  
Trans EPA ID: CAD982413262  
Trans Name: EVERGREEN ENVIRONMENTAL SERVICES  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSD EPA ID: CAD980887418  
Trans Name: EVERGREEN OIL INC  
TSD EPA Alt EPA ID: Not reported  
TSD EPA Alt Name: Not reported  
Waste Code Description: 223 - Unspecified oil-containing waste

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Quantity Tons: 0.075  
Waste Quantity: 150  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

**CERS:**

Name: FUEL STOP MINI MART & TIRE  
Address: 3200 RIO LINDA BLVD  
City,State,Zip: SACRAMENTO, CA 95815  
Site ID: 118295  
CERS ID: 10217284  
CERS Description: Chemical Storage Facilities

**Violations:**

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-17-2018  
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)

Violation Description: Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1, 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October 1, 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.

Violation Notes: Returned to compliance on 04/30/2019. OBSERVATION: Owner/Operator did not maintain overfill prevention system to meet one of the following requirements:1. Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or2. Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

of capacity; and activate an audible alarm at least five minutes before the tank overfills; or3. Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or4. Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. At time of the inspection, it was observed that the facility's overfill testing indicated restriction of pumping/adding fuel at > 95% for both the 87 tank and 91 tank. The test results [Truncated]

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-12-2013  
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2

Violation Description: Failure to test the spill bucket annually.  
Violation Notes: Returned to compliance on 04/07/2014.  
Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-07-2016  
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34

Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.  
Violation Notes: Returned to compliance on 12/13/2016. -87 AND 91 VIOLATION- 1. OBSERVATION: The facility has not submitted a current Certificate of Financial Responsibility to CERS. UST forms must be electronically submitted. CORRECTIVE ACTION: Submit a current Certificate of Financial Responsibility to CERS.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-06-2017  
Citation: 23 CCR 16 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2711(a)(8)

Violation Description: Failure to submit or maintain a current facility plot plan.  
Violation Notes: Returned to compliance on 09/12/2019. OBSERVATION: Owner/Operator did not submit, obtain approval, and maintain a complete/accurate plot plan. Plot plan does not include the location of line leak detectors or the Emergency Stop(s) CORRECTIVE ACTION: Submit, obtain approval, and maintain a complete/accurate plot plan to CERS. NOTE: THIS VIOLATION APPLIES TO BOTH TANK SYSTEMS ONSITE. NOTE: THE PLOT PLAN WAS UPDATED AND SUBMITTED TO CERS AT THE TIME OF INSPECTION.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 10-09-2020  
Citation: HSC 6.7 25299(a)(9) - California Health and Safety Code, Chapter 6.7, Section(s) 25299(a)(9)  
Violation Description: Leak detection equipment disabled or tampered with in a manner that would prevent the monitoring system from detecting and/or alerting the owner/operator of a leak.  
Violation Notes: Returned to compliance on 03/15/2021. OBSERVATION: UST Owner/UST Operator tampered with and/or disabled leak detection equipment in a manner that would prevent the monitoring system from detecting and/or alerting the owner/operator of a leak. In February 2020 the power to the Veeder Root monitoring panel and the two Underground Storage Tank (UST) systems on-site was manually shut off. The power has been off since February 2020 and has not been restored. Please see Violation Q700 for more information. CORRECTIVE ACTION: IMMEDIATELY return the two UST systems on-site to proper compliance. Either apply for a UST Temporary Closure Permit, OR apply for a Cold Start Permit to begin continuously monitoring the UST system again. Moving forward, UST Owner/UST Operator shall not disable or tamper with monitoring equipment. NOTE: This violation applies to both tank systems on-site. THIS IS A CLASS 1 ENFORCEABLE VIOLATION. Correction of these violations may not preclude any enforcement action being taken against [Truncated]  
Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-16-2019  
Citation: 23 CCR 16 2715(a)(1)(B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)(1)(B)  
Violation Description: Failure to submit the Designated Underground Storage Tank Operator Identification Form within 30 days of installing a UST system or within 30 days of a change in DO.  
Violation Notes: Returned to compliance on 06/10/2021. OBSERVATION: The Designated UST Operator (D.O.) Identification form submitted through the California Environmental Reporting System (CERS) is not up-to-date. CORRECTIVE ACTION: Log into CERS (<http://cers.calepa.ca.gov>) and re-submit with an updated D.O. Identification form. NOTE: This violation applies to both tank systems on-site.  
Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-16-2019  
Citation: 23 CCR 16 2716(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(e)  
Violation Description: For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of

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**FUEL STOP MINI MART & TIRE (Continued)**

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liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(c). For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30 days.

Violation Notes: Returned to compliance on 12/16/2019. OBSERVATION: The following Designated UST Operator (D.O.) Monthly Inspections were observed not signed/addressed by the UST Owner/Operator at time of inspection: 9/12/19 and 12/11/19. These documents were signed/addressed at time of inspection. CORRECTIVE ACTION: This violation is closed. Moving forward, ensure that the D.O. Monthly Inspections are signed/addressed by the UST Owner/Operator within 48 hours of receiving the report from the D.O.. NOTE: This violation applies to both tank systems on-site.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-07-2015  
Citation: HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)

Violation Description: Failure to submit an complete and accurate application for a permit to operate an underground storage tank, or for renewal of the permit.

Violation Notes: Returned to compliance on 12/13/2016. OBSERVATION: Owner/Operator did not submit an accurate UST Tank information. The tank form for the 87 tank requires the following corrections: PIPING/ TURBINE CONTAINMENT SUMP TYPE = SINGLE WALL, RISER PRIMARY CONTAINMENT = STEEL and STEEL COMPONENT PROTECTION = ISOLATION. CORRECTIVE ACTION: Submit and maintain an accurate UST Tank information in CERS. OBSERVATION: Owner/Operator did not submit an accurate UST Tank information. The tank form for the 91 tank requires the following corrections: RISER PRIMARY CONTAINMENT = STEEL and STEEL COMPONENT PROTECTION = ISOLATION. CORRECTIVE ACTION: Submit and maintain an accurate UST Tank information in CERS. NOTE: The Portal is being phased out in place of the California Electronic Reporting System (CERS). All your data entered in the Portal has been moved to CERS. As a new user you will only be required to create a login, review the data and submit the data when complete. Please notify Brion McGinness at [Truncated]

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-08-2014  
Citation: HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)

Violation Description: Failure to submit an complete and accurate application for a permit to operate an underground storage tank, or for renewal of the permit.

Violation Notes: Returned to compliance on 12/13/2016. OBSERVATION: Owner/Operator did not submit and/or maintain an accurate UST Operating Permit Application for Facility information and Tank information. CORRECTIVE

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**FUEL STOP MINI MART & TIRE (Continued)**

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ACTION: Submit and maintain an accurate UST Operating Permit Application for Facility information and Tank information. NOTE: UST information must be submitted electronically using the EMD electronic reporting Portal.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-17-2018  
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12

Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.

Violation Notes: Returned to compliance on 12/24/2018. OBSERVATION: The generator's EPA ID number is inactive as of 06/30/2016. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an active EPA ID number. At the time, this facility was currently storing a hazardous waste drum @ 55 gallons of waste fuel and water mixed. CORRECTIVE ACTION: Submit documentation to this department demonstrating that you have reactivated the facility's EPA ID number by sending me the confirmation from DTSC that your EPA ID Number was reactivated.

Violation Division: Sacramento County Env Management Department  
Violation Program: HW  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-07-2016  
Citation: 23 CCR 16 2632(d)(1)(C), 2641(h), 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632(d)(1)(C), 2641(h), 2711(a)(8)

Violation Description: Failure to submit or update a plot plan.

Violation Notes: Returned to compliance on 12/13/2016. -87 AND 91 VIOLATION- 1. OBSERVATION: The facility has not submitted a complete/accurate plot plan to CERS. Facilities must electronically submit their UST forms each year. CORRECTIVE ACTION: Submit a complete/accurate plot plan to CERS.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-07-2016  
Citation: 23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)

Violation Description: Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly.

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**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been properly trained.

Violation Notes: Returned to compliance on 12/13/2016. -87 AND 91 VIOLATION- 1. OBSERVATION: The facility's Designated Operator (DO) listed in the 11/18/16, 10/4/16, 9/22/16, 8/19/16, 7/22/16, 6/22/16, and 5/13/16 DO reports that secondary containment testing was last completed on 12/17/15. The facility's 4/22/16, 3/24/16, 2/25/16, 1/21/16, and 12/17/15 Do reports show that secondary containment testing was last completed on 12/17/13. EMD's records show that secondary containment testing was last completed on 12/12/13. DO reports must be accurate/complete. CORRECTIVE ACTION: Submit a statement to EMD, Attn: Megan Vaughan, demonstrating that: a) the DO has come out and filled out separate, corrected DO reports for each DO report completed in the last 12 months, and that b) the Do understands the regulatory requirements for filling out all future DO reports.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 03-15-2021  
Citation: HSC 6.7 25290.2(c) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.2(c)

Violation Description: Failure to maintain secondary containment (e.g., failure of secondary containment testing).

Violation Notes: Returned to compliance on 03/15/2021. See Violation "Q669."

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-07-2016  
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)

Violation Description: Failure to have a UST Response Plan available on site.

Violation Notes: Returned to compliance on 12/13/2016. -87 AND 91 VIOLATION- 1. OBSERVATION: The facility has not submitted a response plan to CERS. Facilities must electronically submit their UST forms each year. CORRECTIVE ACTION: Submit a response plan to CERS.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-08-2014  
Citation: Un-Specified  
Violation Description: UST Program - Operations/Maintenance - For use of Local Ordinance only.

Violation Notes: Returned to compliance on 12/13/2016. OBSERVATION: Owner/Operator did not submit UST compliance statement and/or Designated Operator current certification. CORRECTIVE ACTION: Submit UST compliance statement and/or Designated Operator current certification. NOTE: UST

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**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

information must be submitted electronically using the EMD electronic reporting Portal.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 03-15-2021  
Citation: 23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)

Violation Description: Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.).

Violation Notes: Returned to compliance on 06/10/2021. OBSERVATION: The last annual test of the UST Monitoring System was due on or before October 18, 2020 and is not five (5) months overdue. The UST Owner/Operator did not test leak detection equipment every 12 months (liquid sensors, LLDs, ATGs, etc.). All UST Monitoring Systems are required to be tested annually. CORRECTIVE ACTION: Test leak detection equipment every 12 months (liquid sensors, LLDs, ATGs, etc.) and submit monitoring system certification within 30 days of completion of the test. Send a statement explaining why this monitoring certification was late.\* NOTE: A fire occurred at this facility in February 2020. Power was restored to the Veeder-Root Monitoring System only. Power has not been restored to the 87 or 91 STPs or any dispensers. \* A statement will not substitute for compliance with State UST Regulations.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-07-2015  
Citation: 23 CCR 16 2715(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)

Violation Description: Failure to submit statement of UST compliance and/or Designated Operator certification.

Violation Notes: Returned to compliance on 12/13/2016. OBSERVATION: Owner/Operator did not submit UST compliance statement and/or Designated Operator current certification. The attachment in CERS is a copy of the CFO letter not UST compliance statement and/or Designated Operator current certification. CORRECTIVE ACTION: Submit UST compliance statement and/or Designated Operator current certification. NOTE: The Portal is being phased out in place of the California Electronic Reporting System (CERS). All your data entered in the Portal has been moved to CERS. As a new user you will only be required to create a login, review the data and submit the data when complete. Please notify Brion McGinness at mcginnessb@sacounty.net following correction of this violation.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295

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**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-12-2013  
Citation: HSC 6.7 25291 - California Health and Safety Code, Chapter 6.7, Section(s) 25291  
Violation Description: Failure to maintain under-dispenser containment, sumps, and/or other secondary containment in good condition and/or free of debris/liquid.  
Violation Notes: Returned to compliance on 12/16/2013.  
Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-17-2018  
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2  
Violation Description: "Failure to meet one or more of the following requirements: Install or maintain a liquid-tight spill container. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill container. Be resistant to galvanic corrosion. Perform a tightness test at installation, every 12 months thereafter, or within 30 days after a repair to the spill container. Tested using applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Tested by a certified UST service technician. Maintain records of spill containment testing for 36 months. "  
Violation Notes: Returned to compliance on 04/30/2019. OBSERVATION: At time of the inspection, UST Technician David Winkler indicated that the spill containment buckets are not 5 gallons in capacity. Based on his calculations of the diameter and height of the direct buried buckets for Tank 91, the bucket does not have the capacity to containerize a minimum of 5 gallons. CORRECTIVE ACTION: Within 30 days, establish a course of action on how the facility representatives will address this spill bucket issue. If construction will be needed, please obtain all required permitting before conducting any or consult with our department before doing so. THIS VIOLATION ONLY APPLIES TO TANK 91.  
Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-08-2014  
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)  
Violation Description: Failure to maintain on site an approved monitoring plan.  
Violation Notes: Returned to compliance on 12/13/2016. OBSERVATION: Owner/Operator did not maintain an approved monitoring plan. CORRECTIVE ACTION: Maintain an approved monitoring plan. Submit monitoring plan for approval. NOTE: UST information must be submitted electronically using the EMD electronic reporting Portal.  
Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE

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**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

Violation Date: 12-07-2016  
Citation: 23 CCR 16 2715(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)  
Violation Description: Failure to notify the CUPA of the designated operator (DO) identification and/or change of the DO within 30 days.  
Violation Notes: Returned to compliance on 12/13/2016. -87 AND 91 VIOLATION- 1. OBSERVATION: The facility has not submitted a current UST Compliance Statement and/or Designated Operator (DO) certification to CERS. The facility must notify the CUPA of its DOs/changes to the DOs within 30 days of the change. CORRECTIVE ACTION: Submit a current UST Compliance Statement and/or Designated Operator current certification to CERS.  
Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-08-2014  
Citation: Un-Specified  
Violation Description: UST Program - Operations/Maintenance - For use of Local Ordinance only.  
Violation Notes: Returned to compliance on 03/31/2015. OBSERVATION: The chain component of the float and chain leak prevention system in UDC #1/2 was disconnected and as a result not able stop the flow of product at the dispenser when tested. All monitoring equipment shall be maintained to activate an audible and visual alarm or stop the flow of product at the dispenser when it detects a leak. CORRECTIVE ACTION: Correct immediately by having a properly licensed, trained, and certified contractor replace the failed component with a functional component (LG 113-x listed, if applicable) and obtain a permit within one business day from the CUPA. If the failed component can t be replaced immediately, there is a possibility that the UST system may be red tagged to prevent fuel inputs. NOTE: Chain in UDC #1/2 repaired and retested at time of inspection.  
Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-07-2015  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)  
Violation Description: Failure to complete and electronically submit a site map with all required content.  
Violation Notes: Returned to compliance on 07/14/2016. OBSERVATION: The annotated site map submitted to this department does not include the hazardous waste storage behind the store or a north indicator. CORRECTIVE ACTION: Revise the annotated Site Map to include all required content and submit electronically in the California Environmental Reporting System. NOTE: The Portal is being phased out in place of the California Electronic Reporting System (CERS). All your data entered in the Portal has been moved to CERS. As a new user you will only be required to create a login, review the data and submit the data when complete. Please notify Brion McGinness at mcginnessb@sacounty.net following correction of this violation.  
Violation Division: Sacramento County Env Management Department

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**FUEL STOP MINI MART & TIRE (Continued)**

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| <p>Violation Program:<br/>         Violation Source:</p> <p>Site ID:<br/>         Site Name:<br/>         Violation Date:<br/>         Citation:<br/>         Violation Description:</p> <p>Violation Notes:<br/>         Violation Division:<br/>         Violation Program:<br/>         Violation Source:</p> <p>Site ID:<br/>         Site Name:<br/>         Violation Date:<br/>         Citation:</p> <p>Violation Description:<br/>         Violation Notes:</p> <p>Violation Division:<br/>         Violation Program:<br/>         Violation Source:</p> <p>Site ID:<br/>         Site Name:<br/>         Violation Date:<br/>         Citation:</p> <p>Violation Description:<br/>         Violation Notes:</p> <p>Violation Division:<br/>         Violation Program:<br/>         Violation Source:</p> <p>Site ID:</p> | <p>HMRRP<br/>         CERS,</p> <p>118295<br/>         FUEL STOP MINI MART &amp; TIRE<br/>         12-08-2014<br/>         Un-Specified<br/>         UST Program - Administration/Documentation - For use of Local Ordinance only<br/>         Returned to compliance on 12/13/2016. See violation Q659.<br/>         Sacramento County Env Management Department<br/>         UST<br/>         CERS,</p> <p>118295<br/>         FUEL STOP MINI MART &amp; TIRE<br/>         12-07-2016<br/>         23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)<br/>         Failure to have a UST Monitoring Plan available on site.<br/>         Returned to compliance on 12/13/2016. -87 AND 91 VIOLATION- 1. OBSERVATION: Neither the 87 or 91's monitoring plans submitted to CERS on 7/14/16 are complete. Monitoring plans must be complete. CORRECTIVE ACTION: Resubmit the facility's monitoring plans (for both the 87 and 91) after completing them.<br/>         Sacramento County Env Management Department<br/>         UST<br/>         CERS,</p> <p>118295<br/>         FUEL STOP MINI MART &amp; TIRE<br/>         12-17-2018<br/>         22 CCR 12 66262.11 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.11<br/>         Failure to determine if wastes generated are hazardous waste by using generator knowledge or applying testing method.<br/>         Returned to compliance on 09/18/2019. OBSERVATION: At time of inspection, when I observed the back of the facility (Mr. Sultan Khan indicated that there was a recent break in in the back of the facility), there were various aerosols, sealants and oils accumulating throughout the yard appearing waste-like and a proper waste determination has not been made. As a hazardous waste generator, the facility must make a proper waste determination on the waste-like materials and arrange for proper disposal of the items observed. CORRECTIVE ACTION: Submit documentation to this department demonstrating that the various oil cans, aerosol cans and sealants have been properly characterized to determine if it is a hazardous waste. If determined to be hazardous submit a manifest/receipt documenting proper disposal and a statement demonstrating how you will manage it in the future. Keep the test results, waste analyses, or other determinations at least three years from the date that the waste was last sent to on-site or [Truncated]<br/>         Sacramento County Env Management Department<br/>         HW<br/>         CERS,</p> <p>118295</p> |
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**FUEL STOP MINI MART & TIRE (Continued)**

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Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-17-2018  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)  
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.  
Violation Notes: Returned to compliance on 12/17/2018. OBSERVATION: At time of inspection, it was observed that the facility did not update the hazardous material inventory forms to reflect the actual quantity of gasoline stored on site. The quantity indicates 10,000 gallons but should be 15,000 gallons to reflect both unleaded and premium gasoline. In addition, the 55 gallon drum of waste fuel/water mix was not reflected on the inventory. At the end of the inspection, assistance was provided to Sultan Khan to reflect these changes/updates.  
Violation Division: Sacramento County Env Management Department  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-06-2017  
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34  
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.  
Violation Notes: Returned to compliance on 09/12/2019. OBSERVATION: Financial responsibility documents submitted to CERS are not accurate/ complete. Current financial responsibility documents are required to be submitted annually. CORRECTIVE ACTION: Complete and submit a copy of the financial responsibility to CERS. NOTE: THIS VIOLATION APPLIES TO BOTH TANK SYSTEMS ONSITE. NOTE: CERTIFICATION OF FINANCIAL RESPONSIBILITY DOCUMENTATION WAS UPDATED AND SUBMITTED TO CERS AT THE TIME OF INSPECTION.  
Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-06-2017  
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)  
Violation Description: Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 p.s.i.g. and restrict or shut off the flow of product through the piping when a leak is detected.  
Violation Notes: Returned to compliance on 12/06/2017. OBSERVATION: Owner/Operator did not repair/maintain pressurized piping to meet one or more of the following requirements: monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour, and will restrict the flow of product through the piping or trigger an alarm when a release occur. The 91 line leak detector failed to detect a leak when tested. CORRECTIVE ACTION: Repair/maintain pressurized piping to meet one or more of the following requirements: monitored at least hourly with the

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**FUEL STOP MINI MART & TIRE (Continued)**

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capability of detecting a release of 3.0 gallons per hour, and will restrict the flow of product through the piping or trigger an alarm when a release occurs. NOTE: THIS VIOLATION APPLIES TO THE 91 TANK SYSTEM. NOTE: THE 91 LLD WAS ADJUSTED AND RETESTED AT THE TIME OF INSPECTION.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-07-2015  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)

Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.

Violation Notes: Returned to compliance on 07/14/2016. OBSERVATION: The Emergency Response Plan and procedures submitted to this department is not complete. Complete section A5 and section J. CORRECTIVE ACTION: Complete the emergency response plan and procedures to include all required content and submit electronically in the California Environmental Reporting System. NOTE: The Portal is being phased out in place of the California Electronic Reporting System (CERS). All your data entered in the Portal has been moved to CERS. As a new user you will only be required to create a login, review the data and submit the data when complete. Please notify Brion McGinness at mcginnessb@saccounty.net following correction of this violation.

Violation Division: Sacramento County Env Management Department  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 03-15-2021  
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2

Violation Description: "Failure to meet one or more of the following requirements: Install or maintain a liquid-tight spill container. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill container. Be resistant to galvanic corrosion. Perform a tightness test at installation, every 12 months thereafter, or within 30 days after a repair to the spill container. Tested using applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Tested by a certified UST service technician. Maintain records of spill containment testing for 36 months. "

Violation Notes: Returned to compliance on 06/10/2021. OBSERVATION: The 87 spill bucket testing was due on or before December 17, 2019; And the 91 UST spill bucket testing was due on or before April 30, 2020. All UST Spill Buckets must be tested annually. CORRECTIVE ACTION: Test the 87 and 91 UST Spill Buckets and send the Test Results to this office within 30-Days of testing. NOTE: A fire occurred at this facility in February 2020. Power was restored to the Veeder-Root Monitoring System. Power has not been restored to the 87 or 91 STP or any dispensers. However, fire did not damage the 87 or 91 Spill Buckets. Test these UST Components at your earliest opportunity!

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-07-2015  
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34  
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.  
Violation Notes: Returned to compliance on 12/13/2016. OBSERVATION: An accurately completed Chief Financial Office (CFO) document has not been submitted to the CUPA. Current and accurate CFO documentation is required to be submitted annually. CORRECTIVE ACTION: Complete and submit a copy of the financial responsibility to CERS. NOTE: The Portal is being phased out in place of the California Electronic Reporting System (CERS). All your data entered in the Portal has been moved to CERS. As a new user you will only be required to create a login, review the data and submit the data when complete. Please notify Brion McGinness at mcginnessb@sacounty.net following correction of this violation.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-07-2016  
Citation: 23 CCR 6.7 25284, 25286 - California Code of Regulations, Title 23, Chapter 6.7, Section(s) 25284, 25286  
Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.  
Violation Notes: Returned to compliance on 12/13/2016. -87 AND 91 VIOLATIONS- 1. OBSERVATION: The facility marked that its piping/turbine containment sump is double-walled in the tank information pages submitted to CERS on 7/14/2016. This is not correct. The turbine sumps are single-walled. Information submitted to CERS must be correct. CORRECTIVE ACTION: Resubmit the facility's tank information pages in CERS after making the necessary updates. 2. OBSERVATION: The facility marked 'none' for its riser pipe primary containment in the tank information pages submitted to CERS on 7/14/2016. This is not correct. The primary containment (for both tanks) is steel. CORRECTIVE ACTION: Resubmit the facility's tank information in CERS after making the necessary updates. 3. OBSERVATION: The facility did not address the "corrosion protection" section of the tank information pages (for the 87 and 91) submitted to CERS on 7/14/2016. Information submitted to CERS must be complete. CORRECTIVE ACTION: Resubmit the facility's [Truncated]

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 10-09-2020  
Citation: 23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

Violation Description: Failure of leak detection equipment to be located such that equipment is capable of detecting a leak at the earliest possible opportunity.

Violation Notes: Returned to compliance on 03/15/2021. OBSERVATION: The UST Owner states that the facility experienced a fire within the convenience store (c-store) back in February 2020. Due to the fire, the facility immediately shut down and manually turned off the power to the c-store as well as the Veeder Root monitoring panel. The power has remained off since the fire. While on-site I observed the presence of liquid within the 91 Premium Unleaded tank system through the drop-tube. I was unable to gain access to the 87 Regular Unleaded drop-tube. The UST Owner estimates that there is around 10,000 gallons of fuel currently stored within the two tank systems on-site. Therefore, the two fuel-containing underground storage tank (UST) systems on-site have been WITHOUT POWER and have NOT been continuously monitored/maintained to detect a leak at the earliest opportunity since February 2020. (23 CCR 16 2630(d), 2641(a)). CORRECTIVE ACTION: IMMEDIATELY return the two UST systems on-site to proper compliance. Either apply for a [Truncated]

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 03-15-2021  
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)

Violation Description: Failure of the functional line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour leak at 10 pounds per square inch and restrict or shut off the flow of product through the piping when a leak is detected.

Violation Notes: Returned to compliance on 06/10/2021. OBSERVATION: The UST Owner/Operator failed to test the 87 and 91 line leak detectors annually. The Line Leak Detector test was due on or before October 19, 2020. All line leak detectors installed on UST Systems must be tested annually. CORRECTIVE ACTION: Repair/maintain pressurized piping to meet one or more of the following requirements: monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour, and will restrict the flow of product through the piping or trigger an alarm when a release occurs. Test the line leak detectors and send the test results to this office within 3-Days. - - OR - - Send a statement explaining why this can not be accomplished at this time.\* NOTE: A fire occurred at this facility in February 2020. Power was restored to the Veeder-Root Monitoring System. Power has not been restored to the 87 or 91 STP or any dispensers. \* A statement will not substitute for compliance with State UST Regulations.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-08-2014  
Citation: Un-Specified  
Violation Description: UST Program - Operations/Maintenance - For use of Local Ordinance

Map ID  
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Distance  
Elevation

MAP FINDINGS

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EDR ID Number  
EPA ID Number

**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

Violation Notes: only.  
Returned to compliance on 03/31/2015. OBSERVATION: The 87 grade line leak detector failed to detect a leak when tested. All line leak detectors shall be capable of detecting a 3-gallon per hour leak at 10 psi. CORRECTIVE ACTION: Immediately have a properly licensed, trained, and certified contractor repair or replace the failed leak detector (LG 113-x listed, if applicable) and obtain a permit within one business day from the CUPA. If the failed leak detector can't be replaced immediately, there is a possibility that the 87 grade UST system may be red tagged to prevent fuel inputs. NOTE: 87 grade LLD repaired and retested at time of inspection.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-07-2015  
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12

Violation Description: Failure to obtain and/or maintain an Active EPA ID.  
Violation Notes: Returned to compliance on 12/13/2016. OBSERVATION: The generator does not have an active EPA ID number to manage hazardous waste. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an active EPA ID number. CORRECTIVE ACTION: Submit an application to the California Department of Toxic Substances Control to renew the sites existing EPA ID number. Submit a copy of the completed application to this department.

Violation Division: Sacramento County Env Management Department  
Violation Program: HW  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 10-09-2020  
Citation: 23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)

Violation Description: Failure of the leak detection equipment to have an audible and visual alarm as required.

Violation Notes: Returned to compliance on 03/15/2021. OBSERVATION: The UST Owner states that the facility experienced a fire within the convenience store (c-store) back in February 2020. Due to the fire, the facility immediately shut down and manually turned off the power to the c-store as well as the Veeder Root monitoring panel. The power has remained off since the fire. While on-site I observed the presence of liquid within the 91 Premium Unleaded tank system through the drop-tube. I was unable to gain access to the 87 Regular Unleaded drop-tube. The UST Owner estimates that there is around 10,000 gallons of fuel currently stored within the two tank systems on-site. Therefore, the two fuel-containing underground storage tank (UST) systems on-site have been WITHOUT POWER and have NOT been continuously monitored/maintained to detect a leak at the earliest opportunity since February 2020. CORRECTIVE ACTION: IMMEDIATELY return the two UST systems on-site to proper compliance. Either apply for a UST Temporary Closure OR [Truncated]

Violation Division: Sacramento County Env Management Department

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

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EPA ID Number

**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 10-09-2020  
Citation: 23 CCR 16 2632(c)(2)(A)&(B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632(c)(2)(A)&(B)

Violation Description: Failure to continuously monitor the interstitial space of a double-walled tank with an audible and visual alarm system.

Violation Notes: Returned to compliance on 03/15/2021. OBSERVATION: The UST Owner states that the facility experienced a fire within the convenience store (c-store) back in February 2020. Due to the fire, the facility immediately shut down and manually turned off the power to the c-store as well as the Veeder Root monitoring panel. The power has remained off since the fire. While on-site I observed the presence of liquid within the 91 Premium Unleaded tank system through the drop-tube. I was unable to gain access to the 87 Regular Unleaded drop-tube. The UST Owner estimates that there is around 10,000 gallons of fuel currently stored within the two tank systems on-site. Therefore, the two fuel-containing underground storage tank (UST) systems on-site have been WITHOUT POWER and have NOT been continuously monitored/maintained to detect a leak at the earliest opportunity since February 2020. CORRECTIVE ACTION: IMMEDIATELY return the two UST systems on-site to proper compliance. Either apply for a UST Temporary Closure OR [Truncated]

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-07-2016  
Citation: HSC 6.7 25284(a)(3)(A) & (B); - California Health and Safety Code, Chapter 6.7, Section(s) 25284(a)(3)(A) & (B);

Violation Description: Failure to implement or maintain a written agreement between the UST permit holder and the operator (owner/operator agreement).

Violation Notes: Returned to compliance on 12/26/2016. -87 AND 91 VIOLATION- 1. OBSERVATION: The facility has not submitted an owner/operator agreement to CERS. Forms must be electronically submitted. CORRECTIVE ACTION: Submit the owner/operator agreement to CERS.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 10-09-2020  
Citation: 23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)

Violation Description: Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.

Violation Notes: Returned to compliance on 03/15/2021. OBSERVATION: The UST Owner states that the facility experienced a fire within the convenience store (c-store) back in February 2020. Due to the fire, the facility immediately shut down and manually turned off the power to the c-store as well as the Veeder Root monitoring panel. The power has remained

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**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

off since the fire. While on-site I observed the presence of liquid within the 91 Premium Unleaded tank system through the drop-tube. I was unable to gain access to the 87 Regular Unleaded drop-tube. The UST Owner estimates that there is around 10,000 gallons of fuel currently stored within the two tank systems on-site. Therefore, the two fuel-containing underground storage tank (UST) systems on-site have been WITHOUT POWER and have NOT been continuously monitored/maintained to detect a leak at the earliest opportunity since February 2020. CORRECTIVE ACTION: IMMEDIATELY return the two UST systems on-site to proper compliance. Either apply for a UST Temporary Closure Permit, [Truncated]

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 03-15-2021  
Citation: 23 CCR 16 2712(b)(1)(F) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(F)

Violation Description: "Failure to conduct secondary containment testing, or one or more of the following requirements: Perform the test of the secondary containment system upon installation, within six months of installation and every 36 months thereafter. Perform the test of a secondary containment component within 30 days of a repair or discontinuing vacuum, pressure or hydrostatic monitoring. Use a procedure that demonstrates the system works as well as at installation. Use applicable manufacturer guidelines, industry codes, engineering standard, or professional engineer approval. Performed by a certified service technician. Maintain records of secondary containment testing for 36 months."

Violation Notes: Returned to compliance on 03/15/2021. OBSERVATION: The last UST Secondary Containment test was due on or before December 8, 2019. This test is now 16 months overdue! UST Secondary containment testing is due within every 36 months. CORRECTIVE ACTION: Conduct secondary containment testing at your earliest opportunity and within every 36 months thereafter. Conduct testing in accordance with proper practices, protocols, or test methods. Submit secondary containment test results within 30-Days of testing. NOTE: A fire occurred at this facility in February 2020. Power was restored to the Veeder-Root Monitoring System only. Power has not been restored to the 87 or 91 STPs or any dispensers. However, Fire did not damage the Secondary Pipe, STP Sumps or UDCs. Conduct this testing at your earliest opportunity.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-06-2017  
Citation: 23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)

Violation Description: Failure of the double-walled pressurized piping to be continuously monitored with a system that activates an audible and visual alarm or stops flow at the dispenser when a leak is detected.

Violation Notes: Returned to compliance on 12/06/2017. OBSERVATION: The float and chain

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**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

monitoring devices for the 87 and 91 fuel grades in UDC #1/2 failed the annual testing event. All monitoring equipment shall be maintained to activate an audible and visual alarm or stop the flow of product at the dispenser when it detects a leak. CORRECTIVE ACTION: Repair/replace and retest failed component(s) and submit test results to this department. NOTE: THIS VIOLATION APPLIES TO BOTH TANK SYSTEMS ONSITE. NOTE: BOTH FLOAT AND CHAIN RESERVOIRS WERE CLEANED AND THE FLOATS RETESTED AT THE TIME OF INSPECTION.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-06-2017  
Citation: HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286

Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.

Violation Notes: Returned to compliance on 09/12/2019. OBSERVATION: Owner/Operator did not submit and/or maintain an accurate UST Tank information. Both tank forms should identify Piping/ Turbine Containment Sump as Fiberglass. CORRECTIVE ACTION: Submit and maintain an accurate UST tank forms to CERS. NOTE: THIS VIOLATION APPLIES TO BOTH TANK SYSTEMS ONSITE. NOTE: BOTH TANK FORMS WERE UPDATED AND SUBMITTED TO CERS AT THE TIME OF INSPECTION.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-07-2016  
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)

Violation Description: Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements: Monitor at least hourly. Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected.

Violation Notes: Returned to compliance on 12/07/2016. -91 VIOLATION- 1. OBSERVATION: The facility's mechanical line leak detector failed to go into slow flow when tested during the 2016 monitoring system certification. Line leak detectors must be able to detect a 3 gph leak at 10 psi and restrict/shut off fuel flow. CORRECTIVE ACTION: No immediate action is required. Afford-Te technicians adjusted the line leak detector once and line leak detector passed when retested.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 03-15-2021  
Citation: 23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)

Violation Description: Failure of the double-walled pressurized piping to be continuously

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**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

Violation Notes: monitored with a system that activates an audible and visual alarm or stops flow at the dispenser when a leak is detected. Returned to compliance on 06/10/2021. OBSERVATION: Positive Shutdown of the Submersible Turbine Pumps (STPs) for the 87 and 91 Tanks was not tested today due to no power. All UST Systems must demonstrate STP shutdown (aka Positive Shutdown) when liquid sensors are submerged and tested in any liquid. CORRECTIVE ACTION: Maintain the double wall pressurized piping in the turbine sump to be continuously monitored with a system that activates an audible and visual alarm or restricts or stops flow at dispenser when a leak is detected. Send a statement explaining why this monitoring certification was late.\* NOTE: A fire occurred at this facility in February 2020. Power was restored to the Veeder-Root Monitoring System only. Power has not been restored to the 87 or 91 STPs or any dispensers. \* A statement will not substitute for compliance with State UST Regulations.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-07-2015  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)

Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

Violation Notes: Returned to compliance on 12/19/2015. OBSERVATION: The Hazardous Materials Inventory Chemical Description page for unleaded fuel should not identify the "FIRE CODE HAZARD CLASSES" as Explosive or as a Flammable Gas and the "LARGEST CONTAINER" is not 10.0. CORRECTIVE ACTION: Complete and submit an accurate Hazardous Materials Inventory Chemical Description page for materials listed above electronically the California Environmental Reporting System. NOTE: The Portal is being phased out in place of the California Electronic Reporting System (CERS). All your data entered in the Portal has been moved to CERS. As a new user you will only be required to create a login, review the data and submit the data when complete. Please notify Brion McGinness at mcginnessb@sacounty.net following correction of this violation.

Violation Division: Sacramento County Env Management Department  
Violation Program: HMRRP  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-08-2014  
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)

Violation Description: Failure to submit, obtain approval, or maintain a complete/accurate response plan.

Violation Notes: Returned to compliance on 12/13/2016. OBSERVATION: Owner/Operator did not submit and/or maintain an approved response plan. CORRECTIVE ACTION: Submit and maintain an approved response plan. NOTE: UST information must be submitted electronically using the EMD electronic reporting Portal.

Violation Division: Sacramento County Env Management Department

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Direction  
Distance  
Elevation

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**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 03-15-2021  
Citation: HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284

Violation Description: Failure to obtain a valid permit to operate from the UPA including but not limited to unpaid permit fees.

Violation Notes: Returned to compliance on 06/10/2021. OBSERVATION: UST Owner/Operator did not obtain and/or maintain a valid Operating Permit from the CUPA. All facilities storing hazardous materials or generating hazardous waste or both must have a valid permit to operate. CORRECTIVE ACTION: Obtain and maintain a valid Operating Permit from the CUPA. Pay past due invoices to obtain permit.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Violation Date: 12-07-2015  
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)

Violation Description: Failure to maintain on site an approved monitoring plan.

Violation Notes: Returned to compliance on 12/13/2016. OBSERVATION: Owner/Operator did not maintain an approved monitoring plan. Monitoring Plan for both tanks should identify the LEAK SENSOR MODEL # for PIPE MONITORING as a 208 not 420, and section IX needs to be completed. CORRECTIVE ACTION: Maintain an approved monitoring plan to CERS. Submit monitoring plan for approval. NOTE: The Portal is being phased out in place of the California Electronic Reporting System (CERS). All your data entered in the Portal has been moved to CERS. As a new user you will only be required to create a login, review the data and submit the data when complete. Please notify Brion McGinness at mcginnessb@sacounty.net following correction of this violation.

Violation Division: Sacramento County Env Management Department  
Violation Program: UST  
Violation Source: CERS,

Evaluation:  
Eval General Type: Compliance Evaluation Inspection  
Eval Date: 05-23-2022  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Due to a facility fire the convenient store is currently not operational. As a result of the fire the power source to the building was disconnected and remains disconnected. The main purpose of today's inspection was to confirm that the tanks meet temporary closure requirements. The temporary closure inspection included; visual inspection of the tank systems, confirmation that both tanks are empty of product, that the turbine yolks were disconnected and that the spill bucket lids have been secured with padlocks. The Temporary Closure Application which was received by this department on April 14, 2022 and the temporary closure standards were confirmed during today's site inspection. The temporary closure status of both tanks will

MAP FINDINGS

**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

remain valid through May of 2023. Due to COVID 19 this report was emailed to prasadsarita@aol.com on May 23, 2022.

Eval Division: Sacramento County Env Management Department  
 Eval Program: UST  
 Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
 Eval Date: 10-09-2020  
 Violations Found: Yes  
 Eval Type: Routine done by local agency

Eval Notes: NOTES: This was a focused inspection to verify the status of the underground storage tanks (USTs) on-site. The UST Owner (Sarita Prasad) met me on-site to assess the tanks. UST Owner stated that the facility experienced a fire within the convenience store back in February 2020. On that day they closed down the facility, and shut off the power to the facility as well as the Veeder Root and USTs. Since February 2020 the two UST systems on-site have had no power and have not been continuously monitored. At time of inspection I observed the presence of fuel within the 91 Premium Unleaded tank system through the drop-tube as well as the Veeder Root with no power. The owner estimates that there is approximately 10,000 gallons of fuel currently stored within the two tanks. This focused Inspection Report was sent to Sarita Prasad (Owner) via email (saritaprasad@aol.com) on 10/15/2020 as well as sent out Certified Mail. Copies of the UST Temporary Closure Permit Application and [Truncated]

Eval Division: Sacramento County Env Management Department  
 Eval Program: UST  
 Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
 Eval Date: 12-06-2017  
 Violations Found: Yes  
 Eval Type: Routine done by local agency

Eval Notes: Not reported

Eval Division: Sacramento County Env Management Department  
 Eval Program: UST  
 Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
 Eval Date: 12-07-2015  
 Violations Found: Yes  
 Eval Type: Routine done by local agency

Eval Notes: Not reported

Eval Division: Sacramento County Env Management Department  
 Eval Program: HMRRP  
 Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
 Eval Date: 12-12-2013  
 Violations Found: Yes  
 Eval Type: Routine done by local agency

Eval Notes: Not reported

Eval Division: Sacramento County Env Management Department  
 Eval Program: UST  
 Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection

Map ID  
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Distance  
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MAP FINDINGS

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EPA ID Number

**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

Eval Date: 03-15-2021  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: NOTE: A fire occurred at this facility in February 2020. The fire burned electrical wiring and smoke and fire damaged the business interior. As a result, all electrical power was turned off to the building. A focused inspection was conducted by H. Robinson on October 9, 2020 to document UST system violations at that time. A UST Construction permit (U20-116) was issued on January 15, 2021 to re-certify the UST monitoring system after power restored to the unit. Only the power to the Veeder-Root Monitor was restored. The UST Construction inspection and overdue annual monitoring inspection was conducted on March 15, 2021. The Inspection Report was emailed to the facility owner Sarita Prasad via email (SaritaPrasad@aol.com) on May 11, 2021. Consideration between the violation observation date and the violation "Comply by date" is reflected on this report.

Eval Division: Sacramento County Env Management Department  
Eval Program: UST  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 12-07-2016  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: GENERAL NOTES: 1. Secondary containment testing is due on/before December 12, 2016.

Eval Division: Sacramento County Env Management Department  
Eval Program: UST  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 12-08-2014  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Not reported

Eval Division: Sacramento County Env Management Department  
Eval Program: UST  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 12-16-2019  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: NOTE: The UST Letter from Chief Financial Officer submitted through the California Environmental Reporting System (CERS) as part of the mechanism of financial assurance will expire on 12/19/19. Financial documents need to be re-certified annually.

Eval Division: Sacramento County Env Management Department  
Eval Program: UST  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 12-07-2015  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Not reported

Eval Division: Sacramento County Env Management Department

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

Eval Program: HW  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 12-07-2015  
Violations Found: Yes  
Eval Type: Routine done by local agency

Eval Notes: Not reported  
Eval Division: Sacramento County Env Management Department  
Eval Program: UST  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 12-17-2018  
Violations Found: Yes  
Eval Type: Routine done by local agency

Eval Notes: On 12/17/2018, a Hazardous Materials Business Plan (HMBP) inspection was completed at Fuel Stop Mini Mart & Tire, where reportable quantities of hazardous materials were observed and paperwork was reviewed to determine compliance with the Health & Safety Code Chapter 6.95. This facility maintains one 55 gallon drum of waste fuel/water testing fluid on site, which was currently half full at the time of inspection. CERS ID: 10217284 | Last Submittal: 07/29/2018 One minor violation corrected at time of today's inspection. No other violations noted for today's inspection related to the HMBP program.

Eval Division: Sacramento County Env Management Department  
Eval Program: HMRRP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 12-17-2018  
Violations Found: Yes  
Eval Type: Routine done by local agency

Eval Notes: On 12/17/2018, a Hazardous Waste (HW) inspection was completed at Fuel Stop Mini Mart & Tire, where reportable quantities of hazardous materials/wastes were observed and paperwork was reviewed to determine compliance with the Health & Safety Code Chapter 6.5. This facility maintains one 55 gallon drum of waste fuel/water testing fluid on site, which was currently half full at the time of inspection. CERS ID: 10217284 | Last Submittal: 07/29/2018 This facility appears to be a Conditionally Exempt Small Quantity Generator (CESQG) of hazardous wastes. Guidance documents regarding CESQG requirements and resources was provided to the owner at time of today's inspection. Return to Compliance documentation can be submitted to me via the following: ATTN: CHER VUE, ES III 10590 Armstrong Ave, Mather CA 95655 Email: vueche@saccounty.net FAX: 916-875-8513

Eval Division: Sacramento County Env Management Department  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 12-17-2018  
Violations Found: Yes  
Eval Type: Routine done by local agency

Eval Notes: On 12/17/2018, a Underground Storage Tank (UST) Inspection was completed at Fuel Stop Mini Mart & Tire, where Underground Tanks of hazardous materials were observed and paperwork was reviewed to

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

determine compliance with the Health & Safety Code Chapter 6.7. This facility maintains a compartmented 15,000 gallon tank on site of Regular Unleaded Fuel @ 10,000 gallons and Premium Unleaded at 5,000 gallons. The tank on site has the following components installed: Annular Sensor (420), two turbine sumps (208s), direct bury spill buckets for both tanks, flapper valve overfill mechanism, mechanical line leak detection and two UDC islands. At time of inspection, all sensors produced fuel alarm and sensor out, however violations were observed relating to the UST system at time of inspection. CERS ID: 10217284 | Last Submittal: 12/6/2017 - Assistance with CERS was provided at time of today's inspection. Return to Compliance documentation can be submitted to me via the [Truncated]

Eval Division: Sacramento County Env Management Department  
Eval Program: UST  
Eval Source: CERS,

**Enforcement Action:**

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Site Address: 3200 RIO LINDA BLVD  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 03-16-2017  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: Not reported  
Enf Action Division: Sacramento County Env Management Department  
Enf Action Program: UST  
Enf Action Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Site Address: 3200 RIO LINDA BLVD  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 06-21-2018  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: Not reported  
Enf Action Division: Sacramento County Env Management Department  
Enf Action Program: UST  
Enf Action Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Site Address: 3200 RIO LINDA BLVD  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 12-07-2015  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: Not reported  
Enf Action Division: Sacramento County Env Management Department  
Enf Action Program: HMRRP  
Enf Action Source: CERS,

Site ID: 118295

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

Site Name: FUEL STOP MINI MART & TIRE  
Site Address: 3200 RIO LINDA BLVD  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 12-07-2015  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: Not reported  
Enf Action Division: Sacramento County Env Management Department  
Enf Action Program: HW  
Enf Action Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Site Address: 3200 RIO LINDA BLVD  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 12-07-2015  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: Not reported  
Enf Action Division: Sacramento County Env Management Department  
Enf Action Program: UST  
Enf Action Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Site Address: 3200 RIO LINDA BLVD  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 12-08-2014  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: Not reported  
Enf Action Division: Sacramento County Env Management Department  
Enf Action Program: UST  
Enf Action Source: CERS,

Site ID: 118295  
Site Name: FUEL STOP MINI MART & TIRE  
Site Address: 3200 RIO LINDA BLVD  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 12-12-2013  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: Not reported  
Enf Action Division: Sacramento County Env Management Department  
Enf Action Program: UST  
Enf Action Source: CERS,

Coordinates:

Site ID: 118295  
Facility Name: FUEL STOP MINI MART & TIRE  
Env Int Type Code: HWG  
Program ID: 10217284  
Coord Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

Ref Point Type Desc: Center of a facility or station.,  
Latitude: 38.625380  
Longitude: -121.445850

**Affiliation:**

Affiliation Type Desc: Facility Mailing Address  
Entity Name: Mailing Address  
Entity Title: Not reported  
Affiliation Address: 497 Santa Ana Ave  
Affiliation City: Sacramento  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 95838  
Affiliation Phone: ,

Affiliation Type Desc: Operator  
Entity Name: Sarita Devi  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: (916) 529-5758,

Affiliation Type Desc: UST Property Owner Name  
Entity Name: VS PRASAD LLC  
Entity Title: Not reported  
Affiliation Address: 497 Santa Ana Ave  
Affiliation City: Sacramento  
Affiliation State: CA  
Affiliation Country: United States  
Affiliation Zip: 95838  
Affiliation Phone: (916) 529-5758,

Affiliation Type Desc: CUPA District  
Entity Name: Sacramento County Environmental Management Departm  
Entity Title: Not reported  
Affiliation Address: 11080 WHITE ROCK ROAD, STE. 200  
Affiliation City: RANCHO CORDOVA  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 95670  
Affiliation Phone: (916) 875-8550,

Affiliation Type Desc: Document Preparer  
Entity Name: Sarita Prasad  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer  
Entity Name: Sarita Prasad

Map ID  
Direction  
Distance  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

|                        |                       |
|------------------------|-----------------------|
| Entity Title:          | Manager               |
| Affiliation Address:   | Not reported          |
| Affiliation City:      | Not reported          |
| Affiliation State:     | Not reported          |
| Affiliation Country:   | Not reported          |
| Affiliation Zip:       | Not reported          |
| Affiliation Phone:     | ,                     |
| Affiliation Type Desc: | Parent Corporation    |
| Entity Name:           | VS PRASAD LLC         |
| Entity Title:          | Not reported          |
| Affiliation Address:   | Not reported          |
| Affiliation City:      | Not reported          |
| Affiliation State:     | Not reported          |
| Affiliation Country:   | Not reported          |
| Affiliation Zip:       | Not reported          |
| Affiliation Phone:     | ,                     |
| Affiliation Type Desc: | Property Owner        |
| Entity Name:           | VS PRASAD LLC         |
| Entity Title:          | Not reported          |
| Affiliation Address:   | 497 Santa Ana Ave     |
| Affiliation City:      | Sacramento            |
| Affiliation State:     | CA                    |
| Affiliation Country:   | United States         |
| Affiliation Zip:       | 95838                 |
| Affiliation Phone:     | (916) 529-5758,       |
| Affiliation Type Desc: | UST Tank Operator     |
| Entity Name:           | VS PRASAD LLC         |
| Entity Title:          | Not reported          |
| Affiliation Address:   | 497 Santa Ana Ave     |
| Affiliation City:      | Sacramento            |
| Affiliation State:     | CA                    |
| Affiliation Country:   | United States         |
| Affiliation Zip:       | 95838                 |
| Affiliation Phone:     | (916) 529-5758,       |
| Affiliation Type Desc: | Environmental Contact |
| Entity Name:           | Sarita Devi           |
| Entity Title:          | Not reported          |
| Affiliation Address:   | 497 Santa Ana Ave     |
| Affiliation City:      | Sacramento            |
| Affiliation State:     | CA                    |
| Affiliation Country:   | Not reported          |
| Affiliation Zip:       | 95838                 |
| Affiliation Phone:     | ,                     |
| Affiliation Type Desc: | Legal Owner           |
| Entity Name:           | VS PrasadLLC          |
| Entity Title:          | Not reported          |
| Affiliation Address:   | 497 Santa Ana Ave     |
| Affiliation City:      | Sacramento            |
| Affiliation State:     | CA                    |
| Affiliation Country:   | United States         |
| Affiliation Zip:       | 95838                 |
| Affiliation Phone:     | (916) 529-5758,       |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

Affiliation Type Desc: UST Tank Owner  
Entity Name: VS PRASAD LLC  
Entity Title: Not reported  
Affiliation Address: 497 Santa Ana Ave  
Affiliation City: Sacramento  
Affiliation State: CA  
Affiliation Country: United States  
Affiliation Zip: 95838  
Affiliation Phone: (916) 529-5758,

**HWTS:**

Name: SAMEER INC DBA FUEL STOP MINI MART&TIRE  
Address: 3200 RIO LINDA BLVD  
Address 2: Not reported  
City,State,Zip: SACRAMENTO, CA 95815  
EPA ID: CAL000297809  
Inactive Date: 06/30/2020  
Create Date: 08/23/2005  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 3200 RIO LINDA BL  
Mailing Address 2: Not reported  
Mailing City,State,Zip: SACRAMENTO, CA 958150000  
Owner Name: SULTAN KHAN  
Owner Address: 11 TANZANITE CT  
Owner Address 2: Not reported  
Owner City,State,Zip: SACRAMENTO, CA 95834  
Contact Name: SULTAN KHAN  
Contact Address: 11 TANZANITE CT  
Contact Address 2: Not reported  
City,State,Zip: SACRAMENTO, CA 95815  
Facility Status: Inactive  
Facility Type: PERMANENT  
Category: STATE  
Latitude: 38.6254  
Longitude: -121.44585

**NAICS:**

EPA ID: CAL000297809  
Create Date: 2016-02-08 13:42:37.113  
NAICS Code: 445299  
NAICS Description: All Other Specialty Food Stores  
Issued EPA ID Date: 2005-08-23 08:15:23.31000  
Inactive Date: 2020-06-30 00:00:00  
Facility Name: SAMEER INC DBA FUEL STOP MINI MART&TIRE  
Facility Address: 3200 RIO LINDA BLVD  
Facility Address 2: Not reported  
Facility City: SACRAMENTO  
Facility County: Not reported  
Facility State: CA  
Facility Zip: 958151238  
  
EPA ID: CAL000297809  
Create Date: 2005-08-23 08:15:23.467  
NAICS Code: 99999  
NAICS Description: Not Otherwise Specified

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FUEL STOP MINI MART & TIRE (Continued)**

**S113465917**

Issued EPA ID Date: 2005-08-23 08:15:23.31000  
Inactive Date: 2020-06-30 00:00:00  
Facility Name: SAMEER INC DBA FUEL STOP MINI MART&TIRE  
Facility Address: 3200 RIO LINDA BLVD  
Facility Address 2: Not reported  
Facility City: SACRAMENTO  
Facility County: Not reported  
Facility State: CA  
Facility Zip: 958151238

Name: FUEL STOP MINI MART & TIRE  
Address: 3200 RIO LINDA BLVD  
Address 2: Not reported  
City,State,Zip: SACRAMENTO, CA 95815  
EPA ID: CAL000294863  
Inactive Date: 06/30/2006  
Create Date: 06/07/2005  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 3200 RIO LINDA BLVD  
Mailing Address 2: Not reported  
Mailing City,State,Zip: SACRAMENTO, CA 95815  
Owner Name: VIDYA OR SARITA PRASAD  
Owner Address: 3200 RIO LINDA BLVD  
Owner Address 2: Not reported  
Owner City,State,Zip: SACRAMENTO, CA 95815  
Contact Name: VIDYA PRASAD  
Contact Address: 3200 RIO LINDA BLVD  
Contact Address 2: Not reported  
City,State,Zip: SACRAMENTO, CA 95815  
Facility Status: Inactive  
Facility Type: PERMANENT  
Category: STATE  
Latitude: 38.62496  
Longitude: -121.44611

**NAICS:**

EPA ID: CAL000294863  
Create Date: 2005-06-07 16:16:17.700  
NAICS Code: 99999  
NAICS Description: Not Otherwise Specified  
Issued EPA ID Date: 2005-06-07 16:16:17.68300  
Inactive Date: 2006-06-30 14:21:36.99700  
Facility Name: FUEL STOP MINI MART & TIRE  
Facility Address: 3200 RIO LINDA BLVD  
Facility Address 2: Not reported  
Facility City: SACRAMENTO  
Facility County: Not reported  
Facility State: CA  
Facility Zip: 95815

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**A11**      **FARUK FULL STOP**  
**Target**    **3200 RIO LINDA BLVD**  
**Property**   **SACRAMENTO, CA 95838**

**RCRA-SQG**    **1007989059**  
**HAZNET**     **CAR000159814**  
**HWTS**

**Site 11 of 24 in cluster A**

**Actual:**  
**30 ft.**

|  |                          |
|--|--------------------------|
| RCRA Listings:                                     |                          |
| Date Form Received by Agency:                      | 20050105                 |
| Handler Name:                                      | Faruk Full Stop          |
| Handler Address:                                   | 3200 RIO LINDA BLVD      |
| Handler City,State,Zip:                            | SACRAMENTO, CA 95838     |
| EPA ID:  | CAR000159814             |
| Contact Name:                                      | RICHARD D MUNSCH         |
| Contact Address:                                   | 6280 BROOKSHIRE DRIVE    |
| Contact City,State,Zip:                            | ROCKLIN, CA 95677        |
| Contact Telephone:                                 | 916-521-7010             |
| Contact Fax:                                       | Not reported             |
| Contact Email:                                     | Not reported             |
| Contact Title:                                     | Not reported             |
| EPA Region:  | 09                       |
| Land Type:   | Private                  |
| Federal Waste Generator Description:               | Small Quantity Generator |
| Non-Notifier:                                      | Not reported             |
| Biennial Report Cycle:                             | Not reported             |
| Accessibility:                                     | Not reported             |
| Active Site Indicator:                             | Handler Activities       |
| State District Owner:                              | Not reported             |
| State District:                                    | Not reported             |
| Mailing Address:                                   | 6280 BROOKSHIRE DRIVE    |
| Mailing City,State,Zip:                            | ROCKLIN, CA 95677        |
| Owner Name:  | Mohammed Faruk           |
| Owner Type:  | Private                  |
| Operator Name:                                     | Mohammed Faruk           |
| Operator Type:                                     | Private                  |
| Short-Term Generator Activity:                     | No                       |
| Importer Activity:                                 | No                       |
| Mixed Waste Generator:                             | No                       |
| Transporter Activity:                              | No                       |
| Transfer Facility Activity:                        | No                       |
| Recycler Activity with Storage:                    | No                       |
| Small Quantity On-Site Burner Exemption:           | No                       |
| Smelting Melting and Refining Furnace Exemption:   | No                       |
| Underground Injection Control:                     | No                       |
| Off-Site Waste Receipt:                            | No                       |
| Universal Waste Indicator:                         | No                       |
| Universal Waste Destination Facility:              | No                       |
| Federal Universal Waste:                           | No                       |
| Active Site State-Reg Handler:                     | ---                      |
| Federal Facility Indicator:                        | Not reported             |
| Hazardous Secondary Material Indicator:            | NN                       |
| Sub-Part K Indicator:                              | Not reported             |
| 2018 GPRC Permit Baseline:                         | Not on the Baseline      |
| 2018 GPRC Renewals Baseline:                       | Not on the Baseline      |
| 202 GPRC Corrective Action Baseline:               | No                       |
| Subject to Corrective Action Universe:             | No                       |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No                       |
| Corrective Action Priority Ranking:                | No NCAPS ranking         |
| Environmental Control Indicator:                   | No                       |
| Institutional Control Indicator:                   | No                       |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FARUK FULL STOP (Continued)**

**1007989059**

|   |              |
|---|--------------|
| Human Exposure Controls Indicator:                            | N/A          |
| Groundwater Controls Indicator:                               | N/A          |
| Significant Non-Complier Universe:                            | No           |
| Unaddressed Significant Non-Complier Universe:                | No           |
| Addressed Significant Non-Complier Universe:                  | No           |
| Significant Non-Complier With a Compliance Schedule Universe: | No           |
| Financial Assurance Required:                                 | Not reported |
| Handler Date of Last Change:                                  | 20050202     |
| Recognized Trader-Importer:                                   | No           |
| Recognized Trader-Exporter:                                   | No           |
| Importer of Spent Lead Acid Batteries:                        | No           |
| Exporter of Spent Lead Acid Batteries:                        | No           |
| Recycler Activity Without Storage:                            | Not reported |
| Manifest Broker:  | Not reported |
| Sub-Part P Indicator:   | No           |

Hazardous Waste Summary:

|                    |                 |
|--------------------|-----------------|
| Waste Code:        | D001            |
| Waste Description: | IGNITABLE WASTE |

|                    |         |
|--------------------|---------|
| Waste Code:        | D018    |
| Waste Description: | BENZENE |

|                    |  |
|--------------------|--|
| Waste Code:        | F003   |
| Waste Description: | THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES. |

Handler - Owner Operator:

|                                |                |
|--------------------------------|----------------|
| Owner/Operator Indicator:      | Operator       |
| Owner/Operator Name:           | MOHAMMED FARUK |
| Legal Status:                  | Private        |
| Date Became Current:           | 19960412       |
| Date Ended Current:            | Not reported   |
| Owner/Operator Address:        | Not reported   |
| Owner/Operator City,State,Zip: | Not reported   |
| Owner/Operator Telephone:      | Not reported   |
| Owner/Operator Telephone Ext:  | Not reported   |
| Owner/Operator Fax:            | Not reported   |
| Owner/Operator Email:          | Not reported   |

|                                |                       |
|--------------------------------|-----------------------|
| Owner/Operator Indicator:      | Owner                 |
| Owner/Operator Name:           | MOHAMMED FARUK        |
| Legal Status:                  | Private               |
| Date Became Current:           | 19960412              |
| Date Ended Current:            | Not reported          |
| Owner/Operator Address:        | 7712 DOLPHIN FISH WAY |
| Owner/Operator City,State,Zip: | SACRAMENTO, CA 95823  |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FARUK FULL STOP (Continued)**

**1007989059**

Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20050105  
Handler Name: FARUK FULL STOP  
Federal Waste Generator Description: Small Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 44132  
NAICS Description: TIRE DEALERS  
  
NAICS Code: 44711  
NAICS Description: GASOLINE STATIONS WITH CONVENIENCE STORES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

HAZNET:

Name: FARUK FULL STOP  
Address: 3200 RIO LINDA BLVD  
Address 2: Not reported  
City,State,Zip: SACRAMENTO, CA 958151238  
Contact: RICHARD MUNSCH/PROJECT MGR  
Telephone: 9165217010  
Mailing Name: Not reported  
Mailing Address: 6280 BROOKSHIRE DR  
  
Year: 2008  
Gepaid: CAR000159814  
TSD EPA ID: CAD980884183  
CA Waste Code: 331 - Off-specification, aged or surplus organics  
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Tons: 1.188  
  
Year: 2007  
Gepaid: CAR000159814  
TSD EPA ID: CAD980884183  
CA Waste Code: 331 - Off-specification, aged or surplus organics  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FARUK FULL STOP (Continued)**

**1007989059**

|                  |   |
|------------------|---|
| Tons:            | Treatment/Reovery (H010-H129) Or (H131-H135)<br>1.98  |
| Year:            | 2006  |
| Gepaid:          | CAR000159814  |
| TSD EPA ID:      | CAD980884183  |
| CA Waste Code:   | 331 - Off-specification, aged or surplus organics   |
| Disposal Method: | -   |
| Tons:            | 1.749   |
| Year:            | 2006  |
| Gepaid:          | CAR000159814  |
| TSD EPA ID:      | CAD008252405  |
| CA Waste Code:   | 331 - Off-specification, aged or surplus organics   |
| Disposal Method: | R01 - Recycler  |
| Tons:            | 0.6105  |
| Year:            | 2006  |
| Gepaid:          | CAR000159814  |
| TSD EPA ID:      | CAD980884183  |
| CA Waste Code:   | 331 - Off-specification, aged or surplus organics   |
| Disposal Method: | H01 - Transfer Station  |
| Tons:            | 1.551   |
| Year:            | 2006  |
| Gepaid:          | CAR000159814  |
| TSD EPA ID:      | CAD980884183  |
| CA Waste Code:   | 331 - Off-specification, aged or surplus organics   |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No<br>Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons:            | 1.947   |
| Year:            | 2005  |
| Gepaid:          | CAR000159814  |
| TSD EPA ID:      | CAD044003556  |
| CA Waste Code:   | 223 - Unspecified oil-containing waste  |
| Disposal Method: | H01 - Transfer Station  |
| Tons:            | 0.68805   |
| Year:            | 2005  |
| Gepaid:          | CAR000159814  |
| TSD EPA ID:      | CAD008252405  |
| CA Waste Code:   | 331 - Off-specification, aged or surplus organics   |
| Disposal Method: | R01 - Recycler  |
| Tons:            | 1.056   |
| Additional Info: |   |
| Year:            | 2008  |
| Gen EPA ID:      | CAR000159814  |
| Shipment Date:   | 20080207  |
| Creation Date:   | 4/3/2008 18:30:13   |
| Receipt Date:    | 20080214  |
| Manifest ID:     | 004091181JJK  |
| Trans EPA ID:    | CAD044003556  |
| Trans Name:      | RAMOS ENVIRONMENTAL SERVICES INC  |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FARUK FULL STOP (Continued)**

**1007989059**

Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD980884183  
Trans Name: GEM - RANCHO CORDOVA LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 331 - Off-specification, aged, or surplus organics  
RCRA Code: D018  
Meth Code: H061 - Fuel Blending Prior To Energy Recovery At Another Site  
Quantity Tons: 1.188  
Waste Quantity: 360  
Quantity Unit: G  
Additional Code 1: D001  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:

Year: 2007  
Gen EPA ID: CAR000159814

Shipment Date: 20070522  
Creation Date: 10/18/2007 18:30:24  
Receipt Date: 20070525  
Manifest ID: 002004358JJK  
Trans EPA ID: CAD044003556  
Trans Name: RAMOS ENVIRONMENTAL SERVICES INC  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD980884183  
Trans Name: GEM - RANCHO CORDOVA LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 331 - Off-specification, aged, or surplus organics  
RCRA Code: D018  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Quantity Tons: 1.98  
Waste Quantity: 600  
Quantity Unit: G  
Additional Code 1: D001  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:

Year: 2006  
Gen EPA ID: CAR000159814

Shipment Date: 20061213  
Creation Date: 4/19/2007 18:30:14  
Receipt Date: 20061219  
Manifest ID: 001702214JJK  
Trans EPA ID: CAD044003556

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FARUK FULL STOP (Continued)**

**1007989059**

|                         |  |
|-------------------------|--|
| Trans Name:             | RAMOS ENVIRONMENTAL SERVICES INC   |
| Trans 2 EPA ID:         | Not reported   |
| Trans 2 Name:           | Not reported   |
| TSDf EPA ID:            | CAD980884183   |
| Trans Name:             | GEM - RANCHO CORDOVA LLC   |
| TSDf Alt EPA ID:        | Not reported   |
| TSDf Alt Name:          | Not reported   |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics   |
| RCRA Code:              | D018   |
| Meth Code:              | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons:          | 1.947  |
| Waste Quantity:         | 590  |
| Quantity Unit:          | G  |
| Additional Code 1:      | D001   |
| Additional Code 2:      | Not reported   |
| Additional Code 3:      | Not reported   |
| Additional Code 4:      | Not reported   |
| Additional Code 5:      | Not reported   |
| Shipment Date:          | 20060830   |
| Creation Date:          | 10/5/2006 18:32:35   |
| Receipt Date:           | 20060831   |
| Manifest ID:            | 25290274   |
| Trans EPA ID:           | CAD044003556   |
| Trans Name:             | RAMOS ENVIRONMENTAL SERVICES   |
| Trans 2 EPA ID:         | Not reported   |
| Trans 2 Name:           | Not reported   |
| TSDf EPA ID:            | CAD980884183   |
| Trans Name:             | GEM RANCHO CORDOVA   |
| TSDf Alt EPA ID:        | CAD980884183   |
| TSDf Alt Name:          | Not reported   |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics   |
| RCRA Code:              | D001   |
| Meth Code:              | H01 - Transfer Station   |
| Quantity Tons:          | 1.551  |
| Waste Quantity:         | 470  |
| Quantity Unit:          | G  |
| Additional Code 1:      | Not reported   |
| Additional Code 2:      | Not reported   |
| Additional Code 3:      | Not reported   |
| Additional Code 4:      | Not reported   |
| Additional Code 5:      | Not reported   |
| Shipment Date:          | 20060525   |
| Creation Date:          | 12/20/2006 18:31:14  |
| Receipt Date:           | 20060601   |
| Manifest ID:            | 25189017   |
| Trans EPA ID:           | CAD044003556   |
| Trans Name:             | RAMOS ENVIRONMENTAL SERVICES   |
| Trans 2 EPA ID:         | Not reported   |
| Trans 2 Name:           | Not reported   |
| TSDf EPA ID:            | CAD980884183   |
| Trans Name:             | GEM RANCHO CORDOVA   |
| TSDf Alt EPA ID:        | CAD980884183   |
| TSDf Alt Name:          | Not reported   |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics   |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FARUK FULL STOP (Continued)**

**1007989059**

RCRA Code: D001  
Meth Code: - Not reported  
Quantity Tons: 1.749  
Waste Quantity: 530  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20060215  
Creation Date: 6/22/2006 18:34:40  
Receipt Date: 20060222  
Manifest ID: 24849971  
Trans EPA ID: CAD044003556  
Trans Name: RAMOS ENVIRONMENTAL SERVICES  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD008252405  
Trans Name: PACIFIC RESOURCE RECOVERY  
TSDf Alt EPA ID: CAD008252405  
TSDf Alt Name: Not reported  
Waste Code Description: 331 - Off-specification, aged, or surplus organics  
RCRA Code: D001  
Meth Code: R01 - Recycler  
Quantity Tons: 0.6105  
Waste Quantity: 185  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Additional Info:  
Year: 2005  
Gen EPA ID: CAR000159814

Shipment Date: 20050815  
Creation Date: 4/13/2006 18:45:56  
Receipt Date: 20050817  
Manifest ID: 23549500  
Trans EPA ID: CAD044003556  
Trans Name: RAMOS ENVIRONMENTAL SERVICES  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD008252405  
Trans Name: PACIFIC RESOURCE RECOVERY  
TSDf Alt EPA ID: CAD008252405  
TSDf Alt Name: Not reported  
Waste Code Description: 331 - Off-specification, aged, or surplus organics  
RCRA Code: D001  
Meth Code: R01 - Recycler  
Quantity Tons: 1.056  
Waste Quantity: 320  
Quantity Unit: G

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FARUK FULL STOP (Continued)**

**1007989059**

Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 20050311  
Creation Date: 5/29/2005 18:31:56  
Receipt Date: 20050311  
Manifest ID: 24308944  
Trans EPA ID: CAD044003556  
Trans Name: RAMOS ENVIRONMENTAL SERVICES  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD044003556  
Trans Name: RAMOS ENVIRONMENTAL SERVICES  
TSDf Alt EPA ID: CAD044003556  
TSDf Alt Name: Not reported  
Waste Code Description: 223 - Unspecified oil-containing waste  
RCRA Code: NON  
Meth Code: H01 - Transfer Station  
Quantity Tons: 0.68805  
Waste Quantity: 165  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

**HWTS:**

Name: FARUK FULL STOP  
Address: 3200 RIO LINDA BLVD  
Address 2: Not reported  
City,State,Zip: SACRAMENTO, CA 95815  
EPA ID: CAR000159814  
Inactive Date: 06/30/2010  
Create Date: 04/14/2005  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 6280 BROOKSHIRE DR  
Mailing Address 2: Not reported  
Mailing City,State,Zip: ROCKLIN, CA 956770000  
Owner Name: FARUK FULL STOP  
Owner Address: 6280 BROOKSHIRE DR  
Owner Address 2: Not reported  
Owner City,State,Zip: ROCKLIN, CA 956770000  
Contact Name: RICHARD MUNSCH/PROJECT MGR  
Contact Address: 6280 BROOKSHIRE DR  
Contact Address 2: Not reported  
City,State,Zip: ROCKLIN, CA 956770000  
Facility Status: Inactive  
Facility Type: TEMPORARY  
Category: FEDERAL  
Latitude: 38.6254  
Longitude: -121.44585



MAP FINDINGS

**FULL STOP MINIMART (Continued)**

**S104403334**

Status Date: 03/05/2019  
Case Worker: CWL  
RB Case Number: 341309  
Local Agency: SACRAMENTO COUNTY LOP  
File Location: Local Agency  
Local Case Number: F544  
Potential Media Affect: Aquifer used for drinking water supply  
Potential Contaminants of Concern: Gasoline

Site History: On December 16, 1999, five USTs were removed. During removal of the USTs, an SCEMD inspector noted the presence of gasoline odor and discoloration in subsurface soil. Following system removal, soil samples were collected under SCEMD direction. The analytical results from the sampling confirmed that soil beneath the USTs and dispensers had been impacted by Total Petroleum Hydrocarbons (TPH)-as-gasoline, benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE). Seven onsite soil borings were drilled, and three groundwater monitoring wells (MW-1, MW-2 and MW-3) were installed. The results of this investigation showed that soil and groundwater beneath the site had been impacted by gasoline hydrocarbons from the former UST system. Impacts to soil and groundwater were pervasive and mostly undefined. Soils to the total drilling depth of 65 feet beneath the site consisted of clay, silt, and fine sand mixtures. In the unsaturated vadose zone soil, a laterally continuous interval of poorly-graded fine sand and silty fine sand was observed between approximately 9 and 22 feet below ground surface (bgs). This sandy soil was observed at various thickness within this interval in all seven soil borings. Across most of the site, the groundwater-bearing soil consisted of a silt and fine sand mixture, less than 10 feet thick. The remaining soil section mostly consisted of massive sequences of clay and silt soils. During drilling, groundwater was first encountered in the seven soil borings at depths ranging from 53.5 feet bgs in B-5 to 63.5 feet bgs in the boring for MW-2. On May 23, 2001, the static depth to the groundwater table, as measured in the three monitoring wells ranged from 53.34 feet bgs in MW-1 to 62.88 feet bgs in MW-2. The resulting groundwater surface appeared as a regular plane dipping to the southwest at a gradient of approximately 0.14 foot/foot. In soil, 34 of the 37 samples contained concentrations of gasoline compounds above laboratory reporting limits, including TPH-as-gasoline, BTEX, MTBE and tertiary butanol (TBA). Most of the gasoline hydrocarbon mass appeared to be concentrated in unsaturated vadose zone soil at and above 25 feet bgs. Concentrations of gasoline hydrocarbons declined with depth but extended to the depth of the groundwater table. In groundwater, samples collected from the four soil borings and three monitoring wells all contained concentrations of gasoline compounds above laboratory reporting limits, including TPH-as-gasoline, BTEX and MTBE. Gasoline hydrocarbons in groundwater were concentrated beneath the southern end of the site, and the lateral and vertical extent was not defined. The groundwater analytical results are summarized in Table 2. On June 6, 2003, Ramage Environmental documented a survey of potential sensitive receptors within 2,000-feet of the site (site vicinity). According to the city of Sacramento Water Department, the city provides water service throughout the site vicinity, and two of their water supply wells operated approximately 1,200 feet south and 1,500 feet southeast of the site. The well construction details were not available from the California Department of Water Resources (DWR). For the site

MAP FINDINGS

**FULL STOP MINIMART (Continued)**

**S104403334**

vicinity, a total of six water wells were identified in the DWR records. The nearest well was an operating residential irrigation well , approximately 950 feet northwest of the site. Reconnaissance of the site vicinity included a walking tour of the area within at least 500 feet of the site, and a driving tour throughout the site vicinity. Interviews with residents confirmed that the city service is the primary source of water in the neighborhood. It is possible that some older domestic wells continue to operate within the neighborhood; however, no wells or pressure tanks were observed during reconnaissance. On June 12, 2007, to further delineate the soil stratigraphy and to investigate the vertical extent of petroleum hydrocarbons below the groundwater table, One cone penetration test at one off-site location (CPT-1) was advanced. Due to the presence of very dense and cemented soils, the CPT boring could not be advanced deep enough to identify and sample groundwater-bearing intervals beneath the groundwater table. As such, no soil or groundwater samples were collected, and the site investigation was aborted. The installation of one well into the second groundwater-bearing interval, in the vicinity of MW-4 was proposed and approved. Currently, the installation of the well is pending private property access. A passive free product skimmer in MW-3 was installed. Between July 18, 2002 and May 30, 2005, a total of approximately 5,213.50 ounces (40.73 gallons) of free product were removed after 68 recovery events. Between June 8, 2005 and October 16, 2007, a total of 3,390 gallons of gasoline and groundwater mixture were removed from MW-3 in 26 monthly vacuum truck product recovery events. The free product removal events were discontinued in October 2007, pending the startup of the soil vapor extraction and air sparging system. The installation of two nested soil vapor extraction test wells and two air sparge test wells was done in 2002 and air sparge testing and soil vapor extraction testing was conducted. The results indicated that air sparging combined with soil vapor extraction should be an effective method for the remediation of impacted soil and groundwater beneath the site. Startup and shake down of the system occurred in 2009. The system has been operating since then.

LUST:

Global Id: T0606701131  
Contact Type: Local Agency Caseworker  
Contact Name: CHARLEY LANGER  
Organization Name: SACRAMENTO COUNTY LOP  
Address: 11080 WHITE ROCK ROAD, SUITE 200  
City: RANCHO CORDOVA  
Email: langerc@saccounty.net  
Phone Number: 9165912648

Global Id: T0606701131  
Contact Type: Regional Board Caseworker  
Contact Name: VERA FISCHER  
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)  
Address: 11020 SUN CENTER DRIVE #200  
City: RANCHO CORDOVA  
Email: vera.fischer@waterboards.ca.gov  
Phone Number: Not reported

LUST:

Global Id: T0606701131

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FULL STOP MINIMART (Continued)**

**S104403334**

Action Type: ENFORCEMENT  
Date: 10/30/2006  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 12/04/2006  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 04/29/2005  
Action: File review

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 08/07/2006  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 09/11/2006  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 02/02/2008  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 08/21/2008  
Action: File review

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 03/18/2008  
Action: File review

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 02/17/2009  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 03/02/2009  
Action: File review

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 03/15/2011  
Action: Clean Up Fund - Letter to RP

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 03/28/2011

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FULL STOP MINIMART (Continued)**

**S104403334**

Action: Clean Up Fund - Letter to RP

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 08/02/2010  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 05/02/2011  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 10/29/2012  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 08/16/2012  
Action: Staff Letter

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 02/04/2013  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 04/29/2013  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 11/02/2015  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 03/28/2017  
Action: Meeting

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 04/06/2018  
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 02/06/2015  
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 05/04/2018  
Action: Notification - Public Notice of Case Closure

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FULL STOP MINIMART (Continued)**

**S104403334**

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 05/18/2010  
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 09/06/2012  
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 06/16/2011  
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 06/11/2007  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 09/17/2007  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 12/24/2007  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 12/08/2004  
Action: File review

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 03/25/2004  
Action: File review

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 04/14/2008  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 04/21/2008  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 04/07/2006  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FULL STOP MINIMART (Continued)**

**S104403334**

Date: 10/06/2008  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 01/18/2011  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 01/31/2011  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 02/07/2011  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 04/26/2010  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 11/01/2010  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 10/17/2011  
Action: File review

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 07/30/2012  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 02/04/2013  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 10/20/2014  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 07/30/2015  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 07/30/2015  
Action: Technical Correspondence / Assistance / Other

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FULL STOP MINIMART (Continued)**

**S104403334**

|              |  |
|--------------|--|
| Global Id:   | T0606701131  |
| Action Type: | ENFORCEMENT  |
| Date:        | 01/21/2016   |
| Action:      | File review  |
| Global Id:   | T0606701131  |
| Action Type: | ENFORCEMENT  |
| Date:        | 03/05/2019   |
| Action:      | Closure/No Further Action Letter - #WQO_2018_0020_UST    |
| Global Id:   | T0606701131  |
| Action Type: | ENFORCEMENT  |
| Date:        | 03/22/2010   |
| Action:      | Clean Up Fund - Case Closure Review Summary Report (RSR) |
| Global Id:   | T0606701131  |
| Action Type: | Other  |
| Date:        | 01/14/2000   |
| Action:      | Leak Reported  |
| Global Id:   | T0606701131  |
| Action Type: | ENFORCEMENT  |
| Date:        | 01/13/2000   |
| Action:      | Notice of Responsibility                                 |
| Global Id:   | T0606701131  |
| Action Type: | ENFORCEMENT  |
| Date:        | 07/28/2008   |
| Action:      | Technical Correspondence / Assistance / Other            |
| Global Id:   | T0606701131  |
| Action Type: | ENFORCEMENT  |
| Date:        | 01/11/2006   |
| Action:      | File review  |
| Global Id:   | T0606701131  |
| Action Type: | ENFORCEMENT  |
| Date:        | 08/10/2004   |
| Action:      | File review  |
| Global Id:   | T0606701131  |
| Action Type: | ENFORCEMENT  |
| Date:        | 02/02/2005   |
| Action:      | File review  |
| Global Id:   | T0606701131  |
| Action Type: | ENFORCEMENT  |
| Date:        | 03/09/2004   |
| Action:      | File review  |
| Global Id:   | T0606701131  |
| Action Type: | ENFORCEMENT  |
| Date:        | 02/01/2010   |
| Action:      | Technical Correspondence / Assistance / Other            |
| Global Id:   | T0606701131  |
| Action Type: | ENFORCEMENT  |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FULL STOP MINIMART (Continued)**

**S104403334**

Date: 05/02/2012  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 07/31/2013  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 04/29/2013  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 10/29/2012  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 06/01/2015  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 02/02/2015  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 10/31/2014  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 02/03/2014  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 08/04/2014  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 01/29/2016  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 05/04/2018  
Action: State Water Board Closure Order

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 04/06/2018  
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FULL STOP MINIMART (Continued)**

**S104403334**

|              |   |
|--------------|---|
| Global Id:   | T0606701131   |
| Action Type: | ENFORCEMENT   |
| Date:        | 09/15/2017  |
| Action:      | Email Correspondence  |
| Global Id:   | T0606701131   |
| Action Type: | ENFORCEMENT   |
| Date:        | 03/30/2018  |
| Action:      | Email Correspondence  |
| Global Id:   | T0606701131   |
| Action Type: | RESPONSE  |
| Date:        | 04/15/2009  |
| Action:      | Correspondence  |
| Global Id:   | T0606701131   |
| Action Type: | RESPONSE  |
| Date:        | 04/14/2009  |
| Action:      | Correspondence  |
| Global Id:   | T0606701131   |
| Action Type: | RESPONSE  |
| Date:        | 10/19/2015  |
| Action:      | Well Installation Workplan - Regulator Responded            |
| Global Id:   | T0606701131   |
| Action Type: | RESPONSE  |
| Date:        | 09/07/2017  |
| Action:      | Soil and Water Investigation Workplan - Regulator Responded |
| Global Id:   | T0606701131   |
| Action Type: | RESPONSE  |
| Date:        | 08/09/2018  |
| Action:      | Well Destruction Workplan - Regulator Responded             |
| Global Id:   | T0606701131   |
| Action Type: | REMEDIATION   |
| Date:        | 07/18/2002  |
| Action:      | Free Product Removal  |
| Global Id:   | T0606701131   |
| Action Type: | REMEDIATION   |
| Date:        | 04/29/2009  |
| Action:      | Soil Vapor Extraction (SVE)                                 |
| Global Id:   | T0606701131   |
| Action Type: | REMEDIATION   |
| Date:        | 05/15/2009  |
| Action:      | Soil Vapor Extraction (SVE)                                 |
| Global Id:   | T0606701131   |
| Action Type: | ENFORCEMENT   |
| Date:        | 07/21/2008  |
| Action:      | Technical Correspondence / Assistance / Other               |
| Global Id:   | T0606701131   |
| Action Type: | ENFORCEMENT   |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FULL STOP MINIMART (Continued)**

**S104403334**

Date: 05/18/2009  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 08/28/2009  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 08/13/2009  
Action: Staff Letter

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 08/10/2009  
Action: File review

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 11/10/2009  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 08/21/2009  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 10/23/2009  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 11/14/2011  
Action: File review

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 10/28/2011  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 01/01/2012  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 11/14/2011  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 01/20/2012  
Action: Staff Letter

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FULL STOP MINIMART (Continued)**

**S104403334**

|              |   |
|--------------|---|
| Global Id:   | T0606701131                                   |
| Action Type: | ENFORCEMENT                                   |
| Date:        | 01/30/2012                                    |
| Action:      | Technical Correspondence / Assistance / Other |
| Global Id:   | T0606701131                                   |
| Action Type: | ENFORCEMENT                                   |
| Date:        | 01/30/2012                                    |
| Action:      | Technical Correspondence / Assistance / Other |
| Global Id:   | T0606701131                                   |
| Action Type: | ENFORCEMENT                                   |
| Date:        | 05/02/2012                                    |
| Action:      | Technical Correspondence / Assistance / Other |
| Global Id:   | T0606701131                                   |
| Action Type: | ENFORCEMENT                                   |
| Date:        | 07/01/2015                                    |
| Action:      | Staff Letter                                  |
| Global Id:   | T0606701131                                   |
| Action Type: | ENFORCEMENT                                   |
| Date:        | 10/31/2013                                    |
| Action:      | Technical Correspondence / Assistance / Other |
| Global Id:   | T0606701131                                   |
| Action Type: | ENFORCEMENT                                   |
| Date:        | 02/21/2014                                    |
| Action:      | File review                                   |
| Global Id:   | T0606701131                                   |
| Action Type: | ENFORCEMENT                                   |
| Date:        | 05/01/2015                                    |
| Action:      | Technical Correspondence / Assistance / Other |
| Global Id:   | T0606701131                                   |
| Action Type: | ENFORCEMENT                                   |
| Date:        | 10/31/2014                                    |
| Action:      | Technical Correspondence / Assistance / Other |
| Global Id:   | T0606701131                                   |
| Action Type: | ENFORCEMENT                                   |
| Date:        | 05/02/2014                                    |
| Action:      | Technical Correspondence / Assistance / Other |
| Global Id:   | T0606701131                                   |
| Action Type: | ENFORCEMENT                                   |
| Date:        | 02/15/2016                                    |
| Action:      | Technical Correspondence / Assistance / Other |
| Global Id:   | T0606701131                                   |
| Action Type: | ENFORCEMENT                                   |
| Date:        | 03/06/2006                                    |
| Action:      | Technical Correspondence / Assistance / Other |
| Global Id:   | T0606701131                                   |
| Action Type: | ENFORCEMENT                                   |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FULL STOP MINIMART (Continued)**

**S104403334**

Date: 12/17/2007  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 05/02/2008  
Action: File review

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 03/09/2009  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 03/23/2009  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 08/22/2011  
Action: File review

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 11/01/2010  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 02/07/2011  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 02/08/2011  
Action: File review

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 08/05/2011  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 05/02/2011  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 05/16/2011  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 08/04/2014  
Action: Technical Correspondence / Assistance / Other

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FULL STOP MINIMART (Continued)**

**S104403334**

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 06/16/2014  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 05/01/2015  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 10/15/2015  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 11/02/2015  
Action: Technical Correspondence / Assistance / Other

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 08/13/2018  
Action: Email Correspondence

Global Id: T0606701131  
Action Type: ENFORCEMENT  
Date: 08/24/2018  
Action: State Water Board Closure Order - #WQO-2018-0020-UST

Global Id: T0606701131  
Action Type: Other  
Date: 12/16/1999  
Action: Leak Discovery

LUST:

Global Id: T0606701131  
Status: Open - Case Begin Date  
Status Date: 12/16/1999

Global Id: T0606701131  
Status: Open - Site Assessment  
Status Date: 12/16/1999

Global Id: T0606701131  
Status: Open - Site Assessment  
Status Date: 05/14/2001

Global Id: T0606701131  
Status: Open - Remediation  
Status Date: 07/08/2002

Global Id: T0606701131  
Status: Open - Remediation  
Status Date: 01/10/2003

Global Id: T0606701131

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FULL STOP MINIMART (Continued)**

**S104403334**

Status: Open - Verification Monitoring  
Status Date: 12/02/2016  
  
Global Id: T0606701131  
Status: Completed - Case Closed  
Status Date: 03/05/2019

LUST REG 5:

Name: FULL STOP MINIMART  
Address: 3200 RIO LINDA BLVD  
City: RIO LINDA  
Region: 5  
Status: Remedial action (cleanup) Underway  
Case Number: 341309  
Case Type: Drinking Water Aquifer affected  
Substance: GASOLINE  
Staff Initials: VJF  
Lead Agency: Local  
Program: LUST  
MTBE Code: 7

Sacramento Co. CS:

Name: FULL STOP MINI MARKET  
Address: 3200 RIO LINDA BLVD  
City,State,Zip: RIO LINDA, CA  
State Site Number: F544  
Lead Staff: Langer, C.  
Lead Agency: HM  
Remedial Action Taken: NO  
Substance: Automotive(motor gasoline and additives)  
Date Reported: 12/16/1999  
Facility Id: RO0001400  
Case Type: Undefined  
Case Closed: Not reported  
**Date Closed: Not reported**  
**Case Type: Undetermined affected**  
**Substance: Automotive(motor gasoline and additives)**

CORTESE:

Name: FULL STOP MINIMART  
Address: 3200 RIO LINDA BLVD  
City,State,Zip: RIO LINDA, CA 95815  
Region: CORTESE  
Envirostor Id: Not reported  
Global ID: T0606701131  
Site/Facility Type: LUST CLEANUP SITE  
Cleanup Status: COMPLETED - CASE CLOSED  
Status Date: Not reported  
Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported  
Flag: active

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FULL STOP MINIMART (Continued)**

**S104403334**

Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: Not reported  
WID Id: Not reported  
Solid Waste Id No: Not reported  
Waste Management Unit Name: Not reported  
File Name: Active Open

**CERS:**

Name: FULL STOP MINIMART  
Address: 3200 RIO LINDA BLVD  
City,State,Zip: RIO LINDA, CA 95815  
Site ID: 245856  
CERS ID: T0606701131  
CERS Description: Leaking Underground Storage Tank Cleanup Site

**Affiliation:**

Affiliation Type Desc: Local Agency Caseworker  
Entity Name: CHARLEY LANGER - SACRAMENTO COUNTY LOP  
Entity Title: Not reported  
Affiliation Address: 11080 WHITE ROCK ROAD, SUITE 200  
Affiliation City: RANCHO CORDOVA  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: 9165912648,

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: VERA FISCHER - CENTRAL VALLEY RWQCB (REGION 5S)  
Entity Title: Not reported  
Affiliation Address: 11020 SUN CENTER DRIVE #200  
Affiliation City: RANCHO CORDOVA  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

**A15  
Target  
Property**

**FULL STOP MINIMART  
3200 RIO LINDA BLVD  
SACRAMENTO, CA**

**RGA LUST S114624656  
N/A**

**Site 15 of 24 in cluster A**

**Actual:  
30 ft.**

RGA LUST:  
Name: FULL STOP MINIMART  
Address: 3200 RIO LINDA BLVD  
City: SACRAMENTO  
State: SACRAMENTO  
2004 FULL STOP MINIMART 3200 RIO LINDA BLVD

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A16** FULL STOP MINI MART & TIRE SHOP  
**Target** 3200 RIO LINDA BLVD  
**Property** SACRAMENTO, CA 95815

**HWTS** S124843266  
N/A

**Site 16 of 24 in cluster A**

**Actual:**  
**30 ft.**

**HWTS:**  
Name: FULL STOP MINI MART & TIRE SHOP  
Address: 3200 RIO LINDA BLVD  
Address 2: Not reported  
City,State,Zip: SACRAMENTO, CA 95815  
EPA ID: CAL000268535  
Inactive Date: 06/30/2003  
Create Date: 04/02/2003  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 3200 RIO LINDA BLVD  
Mailing Address 2: Not reported  
Mailing City,State,Zip: SACRAMENTO, CA 95815  
Owner Name: ALVEN THAO  
Owner Address: 3200 RIO LINDA BLVD  
Owner Address 2: Not reported  
Owner City,State,Zip: SACRAMENTO, CA 95815  
Contact Name: ALVEN THAO  
Contact Address: 3200 RIO LINDA BLVD  
Contact Address 2: Not reported  
City,State,Zip: SACRAMENTO, CA 95815  
Facility Status: Inactive  
Facility Type: PERMANENT  
Category: STATE  
Latitude: 38.624962  
Longitude: -121.446168

**NAICS:**  
EPA ID: CAL000268535  
Create Date: 2003-04-02 13:12:51.890  
NAICS Code: 44719  
NAICS Description: Other Gasoline Stations  
Issued EPA ID Date: 2003-04-02 13:12:51.86000  
Inactive Date: 2003-06-30 00:00:00  
Facility Name: FULL STOP MINI MART & TIRE SHOP  
Facility Address: 3200 RIO LINDA BLVD  
Facility Address 2: Not reported  
Facility City: SACRAMENTO  
Facility County: Not reported  
Facility State: CA  
Facility Zip: 95815

**A17** FUEL STOP MINI MART & TIRE  
**Target** 3200 RIO LINDA BLVD  
**Property** SACRAMENTO, CA 95815

**Sacramento Co. ML** S123291293  
N/A

**Site 17 of 24 in cluster A**

**Actual:**  
**30 ft.**

**Sacramento Co. ML:**  
Name: FUEL STOP MINI MART & TIRE  
Address: 3200 RIO LINDA BLVD  
City,State,Zip: SACRAMENTO, CA 95815  
Facility Id: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FUEL STOP MINI MART & TIRE (Continued)**

**S123291293**

|                           |              |
|---------------------------|--------------|
| Facility Status:          | Not reported |
| FD:                       | Not reported |
| Billing Codes BP:         | I            |
| Billing Codes UST:        | I            |
| WG Bill Code:             | I            |
| Target Property Bill Cod: | Not reported |
| Food Bill Code:           | Not reported |
| CUPA Permit Date:         | Not reported |
| HAZMAT Permit Date:       | Not reported |
| HAZMAT Inspection Date:   | Not reported |
| Hazmat Date BP Received:  | Not reported |
| UST Permit Dt:            | Not reported |
| UST Inspection Date:      | Not reported |
| UST Tank Test Date:       | Not reported |
| Number of Tanks:          | 2            |
| UST Tank Test Date:       | Not reported |
| SIC Code:                 | Not reported |
| Tier Permitting:          | Not reported |
| AST Bill Code:            | Not reported |
| CALARP Bill Code:         | Not reported |

**A18**      **SAMEER INC DBA FUEL STOP MINI MART&TIRE**  
**Target**    **3200 RIO LINDA BLVD**  
**Property**   **SACRAMENTO, CA 95815**

**RCRA NonGen / NLR**    **1025867188**  
**CAL000297809**

**Site 18 of 24 in cluster A**

**Actual:**  
**30 ft.**

|                                      |   |
|--------------------------------------|---|
| RCRA Listings:                       |   |
| Date Form Received by Agency:        | 20050823                                |
| Handler Name:                        | Sameer Inc Dba Fuel Stop Mini Mart&Tire |
| Handler Address:                     | 3200 RIO LINDA BLVD                     |
| Handler City,State,Zip:              | SACRAMENTO, CA 95815-1238               |
| EPA ID:                              | CAL000297809                            |
| Contact Name:                        | SULTAN KHAN                             |
| Contact Address:                     | 11 TANZANITE CT                         |
| Contact City,State,Zip:              | SACRAMENTO, CA 95815-0000               |
| Contact Telephone:                   | 916-519-7305                            |
| Contact Fax:                         | 916-921-9517                            |
| Contact Email:                       | SULTANKHAN916@YAHOO.COM                 |
| Contact Title:                       | Not reported                            |
| EPA Region:                          | 09                                      |
| Land Type:                           | Not reported                            |
| Federal Waste Generator Description: | Not a generator, verified               |
| Non-Notifier:                        | Not reported                            |
| Biennial Report Cycle:               | Not reported                            |
| Accessibility:                       | Not reported                            |
| Active Site Indicator:               | Handler Activities                      |
| State District Owner:                | Not reported                            |
| State District:                      | Not reported                            |
| Mailing Address:                     | 3200 RIO LINDA BL                       |
| Mailing City,State,Zip:              | SACRAMENTO, CA 95815-0000               |
| Owner Name:                          | Sultan Khan                             |
| Owner Type:                          | Other                                   |
| Operator Name:                       | Sultan Khan                             |
| Operator Type:                       | Other                                   |
| Short-Term Generator Activity:       | No                                      |
| Importer Activity:                   | No                                      |
| Mixed Waste Generator:               | No                                      |

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SAMEER INC DBA FUEL STOP MINI MART&TIRE (Continued)**

**1025867188**

|   |                     |
|---|---------------------|
| Transporter Activity:   | No                  |
| Transfer Facility Activity:                                   | No                  |
| Recycler Activity with Storage:                               | Yes                 |
| Small Quantity On-Site Burner Exemption:                      | No                  |
| Smelting Melting and Refining Furnace Exemption:              | No                  |
| Underground Injection Control:                                | No                  |
| Off-Site Waste Receipt:                                       | No                  |
| Universal Waste Indicator:                                    | Yes                 |
| Universal Waste Destination Facility:                         | Yes                 |
| Federal Universal Waste:                                      | No                  |
| Active Site State-Reg Handler:                                | ---                 |
| Federal Facility Indicator:                                   | Not reported        |
| Hazardous Secondary Material Indicator:                       | N                   |
| Sub-Part K Indicator:   | Not reported        |
| 2018 GPRC Permit Baseline:                                    | Not on the Baseline |
| 2018 GPRC Renewals Baseline:                                  | Not on the Baseline |
| 202 GPRC Corrective Action Baseline:                          | No                  |
| Subject to Corrective Action Universe:                        | No                  |
| Non-TSDFs Where RCRA CA has Been Imposed Universe:            | No                  |
| Corrective Action Priority Ranking:                           | No NCAPS ranking    |
| Environmental Control Indicator:                              | No                  |
| Institutional Control Indicator:                              | No                  |
| Human Exposure Controls Indicator:                            | N/A                 |
| Groundwater Controls Indicator:                               | N/A                 |
| Significant Non-Complier Universe:                            | No                  |
| Unaddressed Significant Non-Complier Universe:                | No                  |
| Addressed Significant Non-Complier Universe:                  | No                  |
| Significant Non-Complier With a Compliance Schedule Universe: | No                  |
| Financial Assurance Required:                                 | Not reported        |
| Handler Date of Last Change:                                  | 20190627            |
| Recognized Trader-Importer:                                   | No                  |
| Recognized Trader-Exporter:                                   | No                  |
| Importer of Spent Lead Acid Batteries:                        | No                  |
| Exporter of Spent Lead Acid Batteries:                        | No                  |
| Recycler Activity Without Storage:                            | No                  |
| Manifest Broker:  | No                  |
| Sub-Part P Indicator:   | No                  |

Handler - Owner Operator:

|                                  |                           |
|----------------------------------|---------------------------|
| Owner/Operator Indicator:        | Operator                  |
| Owner/Operator Name: SULTAN KHAN |                           |
| Legal Status:                    | Other                     |
| Date Became Current:             | Not reported              |
| Date Ended Current:              | Not reported              |
| Owner/Operator Address:          | 11 TANZANITE CT           |
| Owner/Operator City,State,Zip:   | SACRAMENTO, CA 95815-0000 |
| Owner/Operator Telephone:        | 916-519-7305              |
| Owner/Operator Telephone Ext:    | Not reported              |
| Owner/Operator Fax:              | Not reported              |
| Owner/Operator Email:            | Not reported              |

|                                  |              |
|----------------------------------|--------------|
| Owner/Operator Indicator:        | Owner        |
| Owner/Operator Name: SULTAN KHAN |              |
| Legal Status:                    | Other        |
| Date Became Current:             | Not reported |
| Date Ended Current:              | Not reported |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAMEER INC DBA FUEL STOP MINI MART&TIRE (Continued)**

**1025867188**

Owner/Operator Address: 11 TANZANITE CT  
Owner/Operator City,State,Zip: SACRAMENTO, CA 95834  
Owner/Operator Telephone: 916-519-7305  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20050823  
Handler Name: SAMEER INC DBA FUEL STOP MINI MART&TIRE  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: Not reported  
Recognized Trader Exporter: Not reported  
Spent Lead Acid Battery Importer: Not reported  
Spent Lead Acid Battery Exporter: Not reported  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 445299  
NAICS Description: ALL OTHER SPECIALTY FOOD STORES  
  
NAICS Code: 56299  
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**A19  
Target  
Property**

**SAMEER INC DBA FUEL STOP MINI MART&TIRE  
3200 RIO LINDA BLVD  
SACRAMENTO, CA 95815**

**ECHO 1025496534  
N/A**

**Site 19 of 24 in cluster A**

**Actual:  
30 ft.**

ECHO:  
Envid: 1025496534  
Registry ID: 110070589475  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110070589475>  
Name: SAMEER INC DBA FUEL STOP MINI MART&TIRE  
Address: 3200 RIO LINDA BLVD  
City,State,Zip: SACRAMENTO, CA 95815

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**A20**      **GERWER SHELL SERVICE**  
**Target**    **3200 RIO LINDA BLVD**  
**Property**   **SACRAMENTO, CA**

**EDR Hist Auto**    **1009022295**  
**N/A**

**Site 20 of 24 in cluster A**

**Actual:**      EDR Hist Auto  
**30 ft.**

| Year: | Name:                  | Type:                     |
|-------|------------------------|---------------------------|
| 1965  | GERWER SHELL SERVICE   | GASOLINE STATIONS         |
| 1969  | GERWER VERNON F SR     | Gasoline Service Stations |
| 1970  | GERWER SHELL SERVICE   | GASOLINE STATIONS         |
| 1970  | GERWER VERNON F SR     | Gasoline Service Stations |
| 1980  | SPEED BIRD GAS STATION | GASOLINE STATIONS         |
| 1991  | FUEL STOP              | Gasoline Service Stations |
| 1992  | FUEL STOP              | Gasoline Service Stations |
| 1993  | FUEL STOP              | Gasoline Service Stations |
| 1994  | FUEL STOP              | Gasoline Service Stations |
| 1995  | FUEL STOP              | Gasoline Service Stations |
| 1996  | FUEL STOP              | Gasoline Service Stations |
| 1997  | FUEL STOP              | Gasoline Service Stations |
| 1998  | FUEL STOP              | Gasoline Service Stations |
| 1999  | FUEL STOP              | Gasoline Service Stations |
| 2000  | FUEL STOP              | Gasoline Service Stations |
| 2001  | FUEL STOP              | Gasoline Service Stations |
| 2002  | FUEL STOP              | Gasoline Service Stations |
| 2003  | FULL STOP              | Gasoline Service Stations |

**A21**      **FULL STOP MINI MART**  
**Target**    **3200 RIO LINDA BLVD**  
**Property**   **SACRAMENTO, CA 95815**

**UST**      **U004352983**  
**N/A**

**Site 21 of 24 in cluster A**

**Actual:**      UST:  
**30 ft.**

Name:                      FULL STOP MINI MART  
 Address:                    3200 RIO LINDA BLVD  
 City,State,Zip:            SACRAMENTO, CA 95815  
 Facility ID:                FA0005745  
 Permitting Agency:      SACRAMENTO COUNTY  
 CERSID:                    Not reported  
 Latitude:                  38.62673  
 Longitude:                -121.444496  
 Owner type:                Not reported  
 Facility type:              Not reported  
 Num of inuse ust:        Not reported  
 Num of closed ust:      Not reported  
 Num of oos ust:          Not reported  
 Epa region:                Not reported  
 Tribal lands:              Not reported  
 Tank owner name:        Not reported  
 Tank owner mailing address: Not reported  
 Tank owner mailing city: Not reported  
 Tank owner mailing zip: Not reported  
 Tank owner mailing state: Not reported  
 Tank operator name:      Not reported  
 Tank operator mailing address: Not reported  
 Tank operator mailing city: Not reported  
 Tank operator mailing zip: Not reported  
 Tank operator mailing state: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FULL STOP MINI MART (Continued)**

**U004352983**

Tankidnumber: Not reported  
 Tank status: Not reported  
 Tank configuration: Not reported  
 Tank closure date: Not reported  
 Tank installation date: Not reported  
 Tank num of compartments: Not reported  
 Tank contents: Not reported  
 Tank capacity gallons: Not reported  
 Tank type: Not reported  
 Tank pc construction: Not reported  
 Tank pwpiping construction: Not reported  
 Tank piping type: Not reported  
 Tank piping construction: Not reported  
 Tank sacrificial anode: Not reported  
 Tank cp impressed current: Not reported  
 Tank cp shutoff: Not reported  
 Tank alarms: Not reported  
 Tank ball float: Not reported  
 Tank spill bucket: Not reported

**A22  
 Target  
 Property**

**FULL STOP MINI MART  
 3200 RIO LINDA BL  
 SACRAMENTO, CA 95815**

**Sacramento Co. ML S129164886  
 N/A**

**Site 22 of 24 in cluster A**

**Actual:  
 30 ft.**

Sacramento Co. ML:  
 Name: FULL STOP MINI MART  
 Address: 3200 RIO LINDA BL  
 City,State,Zip: SACRAMENTO, CA 95815  
 Facility Id: U0178288  
 Facility Status: Inactive. Included on a listing no longer updated.  
 FD: U  
 Billing Codes BP: Out of Business  
 Billing Codes UST: No Tanks  
 WG Bill Code: Oil Changed by Outside Company-No Fee  
 Target Property Bill Cod: 51  
 Food Bill Code: 51  
 CUPA Permit Date: Not reported  
 HAZMAT Permit Date: Not reported  
 HAZMAT Inspection Date: Not reported  
 Hazmat Date BP Received: Not reported  
 UST Permit Dt: 11/30/1990  
 UST Inspection Date: Not reported  
 UST Tank Test Date: Not reported  
 Number of Tanks: 0  
 UST Tank Test Date: Not reported  
 SIC Code: 5411  
 Tier Permitting: Not reported  
 AST Bill Code: Not reported  
 CALARP Bill Code: Not reported

Name: FULL STOP MINI MART  
 Address: 3200 RIO LINDA BL  
 City,State,Zip: SACRAMENTO, CA 95815  
 Facility Id: U0178288  
 Facility Status: Inactive. Included on a listing no longer updated.  
 FD: U

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FULL STOP MINI MART (Continued)**

**S129164886**

Billing Codes BP: Out of Business  
Billing Codes UST: No Tanks  
WG Bill Code: Oil Changed by Outside Company-No Fee  
Target Property Bill Cod: 51  
Food Bill Code: 51  
CUPA Permit Date: Not reported  
HAZMAT Permit Date: Not reported  
HAZMAT Inspection Date: 07/06/1994  
Hazmat Date BP Received: Not reported  
UST Permit Dt: 11/30/1990  
UST Inspection Date: 07/06/1994  
UST Tank Test Date: Not reported  
Number of Tanks: 0  
UST Tank Test Date: 07/06/1994  
SIC Code: 5541  
Tier Permitting: Not reported  
AST Bill Code: Not reported  
CALARP Bill Code: Not reported

Name: FULL STOP MINI MART  
Address: 3200 RIO LINDA BL  
City,State,Zip: SACRAMENTO, CA 95815  
Facility Id: U0178288  
Facility Status: Inactive. Included on a listing no longer updated.  
FD: U  
Billing Codes BP: Out of Business  
Billing Codes UST: No Tanks  
WG Bill Code: Oil Changed by Outside Company-No Fee  
Target Property Bill Cod: 51  
Food Bill Code: 51  
CUPA Permit Date: Not reported  
HAZMAT Permit Date: Not reported  
HAZMAT Inspection Date: 03/29/1995  
Hazmat Date BP Received: 06/10/1996  
UST Permit Dt: 11/30/1990  
UST Inspection Date: 03/29/1995  
UST Tank Test Date: Not reported  
Number of Tanks: 0  
UST Tank Test Date: Not reported  
SIC Code: Not reported  
Tier Permitting: Not reported  
AST Bill Code: Not reported  
CALARP Bill Code: Not reported

**A23  
Target  
Property**

**ALLADIN SELF SERVICE  
3200 RIO LINDA BL  
SACRAMENTO, CA 95815**

**Sacramento Co. ML S123288912  
N/A**

**Site 23 of 24 in cluster A**

**Actual:  
30 ft.**

Sacramento Co. ML:  
Name: ALLADIN SELF SERVICE  
Address: 3200 RIO LINDA BL  
City,State,Zip: SACRAMENTO, CA 95815  
Facility Id: U0178288  
Facility Status: Inactive. Included on a listing no longer updated.  
FD: U  
Billing Codes BP: Out of Business

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ALLADIN SELF SERVICE (Continued)**

**S123288912**

Billing Codes UST: No Tanks  
WG Bill Code: Oil Changed by Outside Company-No Fee  
Target Property Bill Cod: 51  
Food Bill Code: 51  
CUPA Permit Date: Not reported  
HAZMAT Permit Date: Not reported  
HAZMAT Inspection Date: Not reported  
Hazmat Date BP Received: Not reported  
UST Permit Dt: 11/30/1990  
UST Inspection Date: Not reported  
UST Tank Test Date: Not reported  
Number of Tanks: 0  
UST Tank Test Date: Not reported  
SIC Code: Not reported  
Tier Permitting: Not reported  
AST Bill Code: Not reported  
CALARP Bill Code: Not reported

**A24  
Target  
Property**

**FUEL STOP  
3200 RIO LINDA BL  
SACRAMENTO, CA 95815**

**Sacramento Co. ML S123291294  
N/A**

**Site 24 of 24 in cluster A**

**Actual:  
30 ft.**

Sacramento Co. ML:  
Name: FUEL STOP  
Address: 3200 RIO LINDA BL  
City,State,Zip: SACRAMENTO, CA 95815  
Facility Id: U0178288  
Facility Status: Inactive. Included on a listing no longer updated.  
FD: U  
Billing Codes BP: Out of Business  
Billing Codes UST: No Tanks  
WG Bill Code: Oil Changed by Outside Company-No Fee  
Target Property Bill Cod: 51  
Food Bill Code: 51  
CUPA Permit Date: Not reported  
HAZMAT Permit Date: Not reported  
HAZMAT Inspection Date: Not reported  
Hazmat Date BP Received: Not reported  
UST Permit Dt: 11/13/1990  
UST Inspection Date: 06/06/1991  
UST Tank Test Date: 09/28/1991  
Number of Tanks: 0  
UST Tank Test Date: Not reported  
SIC Code: 5541  
Tier Permitting: Not reported  
AST Bill Code: Not reported  
CALARP Bill Code: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**B25**  
**North**  
**< 1/8**  
**0.109 mi.**  
**576 ft.**  
**SMITTY'S DRIVE-INN**  
**3300 RIO LINDA BL**  
**SACRAMENTO, CA 95838**  
**Site 1 of 3 in cluster B**

**HIST UST** **U001616008**  
**Sacramento Co. ML** **N/A**

**Relative:**  
**Higher**  
**Actual:**  
**34 ft.**

**HIST UST:**  
Name: SMITTYS DRIVE-INN  
Address: 3300 RIO LINDA BLVD  
City,State,Zip: SACRAMENTO, CA 95838  
File Number: 0001fd29  
URL: <https://documents.geotracker.waterboards.ca.gov/ustpdfs/pdf/0001fd29.pdf>  
Region: STATE  
Facility ID: 00000058461  
Facility Type: Gas Station  
Other Type: Not reported  
Contact Name: MOHAMMED ZAMAN  
Telephone: 9169298201  
Owner Name: DELMAR C. SMITH  
Owner Address: 3661 BAINBRIDGE DRIVE  
Owner City,St,Zip: NORTH HIGHLANDS, CA 95660  
Total Tanks: 0002

Tank Num: 001  
Container Num: 2  
Year Installed: 1972  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: REGULAR  
Container Construction Thickness: Not reported  
Leak Detection: Pressure Test

Tank Num: 002  
Container Num: 1  
Year Installed: 1972  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Container Construction Thickness: Not reported  
Leak Detection: Pressure Test

[Click here for Geo Tracker PDF:](#)

Sacramento Co. ML:

Name: SMITTY'S DRIVE-INN  
Address: 3300 RIO LINDA BL  
City,State,Zip: SACRAMENTO, CA 95838  
Facility Id: U0178387  
Facility Status: Inactive. Included on a listing no longer updated.  
FD: U  
Billing Codes BP: Out of Business  
Billing Codes UST: No Tanks  
WG Bill Code: Oil Changed by Outside Company-No Fee  
Target Property Bill Cod: 51  
Food Bill Code: 51  
CUPA Permit Date: Not reported  
HAZMAT Permit Date: Not reported  
HAZMAT Inspection Date: Not reported  
Hazmat Date BP Received: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SMITTY'S DRIVE-INN (Continued)**

**U001616008**

UST Permit Dt: Not reported  
 UST Inspection Date: Not reported  
 UST Tank Test Date: Not reported  
 Number of Tanks: 0  
 UST Tank Test Date: Not reported  
 SIC Code: Not reported  
 Tier Permitting: Not reported  
 AST Bill Code: Not reported  
 CALARP Bill Code: Not reported

**B26**  
 North  
 < 1/8  
 0.109 mi.  
 576 ft.

**SMITTY'S**  
**3300 RIO LINDA BLVD**  
**SACRAMENTO, CA 95838**

**EDR Hist Auto 1020613255**  
**N/A**

**Site 2 of 3 in cluster B**

**Relative:**  
**Higher**

EDR Hist Auto

**Actual:**  
**34 ft.**

| Year: | Name:    | Type:                            |
|-------|----------|----------------------------------|
| 1979  | SMITTY'S | Eating Places                    |
| 1980  | SMITTY'S | Eating Places                    |
| 1982  | SMITTY'S | Eating Places                    |
| 1983  | SMITTY'S | Eating Places                    |
| 1985  | SMITTY'S | Eating Places                    |
| 1986  | SMITTY'S | Eating Places                    |
| 1987  | SMITTY'S | Eating Places                    |
| 1988  | SMITTY'S | Eating Places                    |
| 1989  | SMITTY'S | Fast Food Restaurants And Stands |
| 1990  | SMITTY'S | Fast Food Restaurants And Stands |
| 1991  | SMITTY'S | Fast Food Restaurants And Stands |

**B27**  
 North  
 < 1/8  
 0.109 mi.  
 576 ft.

**DAVE SMITH**  
**3300 RIO LINDA BLVD**  
**SACRAMENTO, CA 95838**

**SWEEPS UST S101590528**  
**CA FID UST N/A**

**Site 3 of 3 in cluster B**

**Relative:**  
**Higher**

SWEEPS UST:

**Actual:**  
**34 ft.**

Name: DAVE SMITH  
 Address: 3300 RIO LINDA BLVD  
 City: SACRAMENTO  
 Status: Not reported  
 Comp Number: 58461  
 Number: Not reported  
 Board Of Equalization: Not reported  
 Referral Date: Not reported  
 Action Date: Not reported  
 Created Date: Not reported  
 Owner Tank Id: Not reported  
 SWRCB Tank Id: 34-000-058461-000001  
 Tank Status: Not reported  
 Capacity: 10000  
 Active Date: Not reported  
 Tank Use: M.V. FUEL  
 STG: PRODUCT  
 Content: LEADED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DAVE SMITH (Continued)**

**S101590528**

Number Of Tanks: 2  
  
Name: DAVE SMITH  
Address: 3300 RIO LINDA BLVD  
City: SACRAMENTO  
Status: Not reported  
Comp Number: 58461  
Number: Not reported  
Board Of Equalization: Not reported  
Referral Date: Not reported  
Action Date: Not reported  
Created Date: Not reported  
Owner Tank Id: Not reported  
SWRCB Tank Id: 34-000-058461-000002  
Tank Status: Not reported  
Capacity: 10000  
Active Date: Not reported  
Tank Use: M.V. FUEL  
STG: PRODUCT  
Content: REG UNLEADED  
Number Of Tanks: Not reported

**CA FID UST:**

Facility ID: 34001359  
Regulated By: UTNKI  
Regulated ID: 00058461  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: 9169298201  
Mail To: Not reported  
Mailing Address: 3300 RIO LINDA BLVD  
Mailing Address 2: Not reported  
Mailing City,St,Zip: SACRAMENTO 95838  
Contact: Not reported  
Contact Phone: Not reported  
DUNs Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Inactive

**C28**  
**ESE**  
**1/8-1/4**  
**0.155 mi.**  
**821 ft.**

**ETHAN BROWNING**  
**1045 SONOMA AVE**  
**SACRAMENTO, CA 95815**  
  
**Site 1 of 3 in cluster C**

**SWEEPS UST** **S101628258**  
**CA FID UST** **N/A**

**Relative:**  
**Higher**  
  
**Actual:**  
**38 ft.**

**SWEEPS UST:**  
Name: ETHAN BROWNING  
Address: 1045 SONOMA AVE  
City: SACRAMENTO  
Status: Active  
Comp Number: 57759  
Number: 9  
Board Of Equalization: 44-019444  
Referral Date: 07-01-85  
Action Date: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ETHAN BROWNING (Continued)**

**S101628258**

Created Date: 02-29-88  
 Owner Tank Id: 1  
 SWRCB Tank Id: 34-000-057759-000001  
 Tank Status: A  
 Capacity: 550  
 Active Date: 07-01-85  
 Tank Use: M.V. FUEL  
 STG: P  
 Content: REG UNLEADED  
 Number Of Tanks: 1

CA FID UST:

Facility ID: 34007249  
 Regulated By: UTNKA  
 Regulated ID: 00057759  
 Cortese Code: Not reported  
 SIC Code: Not reported  
 Facility Phone: 0009251744  
 Mail To: Not reported  
 Mailing Address: P O BOX  
 Mailing Address 2: Not reported  
 Mailing City,St,Zip: SACRAMENTO 95815  
 Contact: Not reported  
 Contact Phone: Not reported  
 DUNs Number: Not reported  
 NPDES Number: Not reported  
 EPA ID: Not reported  
 Comments: Not reported  
 Status: Active

**C29**  
**ESE**  
**1/8-1/4**  
**0.155 mi.**  
**821 ft.**

**ETHAN BROWN**  
**1045 SONOMA AV**  
**SACRAMENTO, CA 95815**  
**Site 2 of 3 in cluster C**

**HIST UST** **U001615262**  
**Sacramento Co. ML** **N/A**

**Relative:**  
**Higher**  
**Actual:**  
**38 ft.**

HIST UST:  
 Name: ETHAN BROWNING  
 Address: 1045 SONOMA AVE  
 City,State,Zip: SACRAMENTO, CA 95815  
 File Number: 0001fd87  
 URL: <https://documents.geotracker.waterboards.ca.gov/ustpdfs/pdf/0001fd87.pdf>  
 Region: STATE  
 Facility ID: 00000057759  
 Facility Type: Other  
 Other Type: PRIVATE STORAGE  
 Contact Name: OWNER  
 Telephone: 9251744  
 Owner Name: ETHAN BROWNING  
 Owner Address: 1945 SONOMA AVE  
 Owner City,St,Zip: SACRAMENTO, CA 95815  
 Total Tanks: 0001

Tank Num: 001  
 Container Num: 1  
 Year Installed: Not reported  
 Tank Capacity: 00000550

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**ETHAN BROWN (Continued)**

**U001615262**

Tank Used for: PRODUCT  
 Type of Fuel: PREMIUM  
 Container Construction Thickness: Not reported  
 Leak Detection: None

Click here for Geo Tracker PDF:

Sacramento Co. ML:

Name: ETHAN BROWN  
 Address: 1045 SONOMA AV  
 City,State,Zip: SACRAMENTO, CA 95815  
 Facility Id: Not reported  
 Facility Status: Inactive. Included on a listing no longer updated.  
 FD: U  
 Billing Codes BP: Disclaimer  
 Billing Codes UST: No Tanks  
 WG Bill Code: Oil Changed by Outside Company-No Fee  
 Target Property Bill Cod: 50  
 Food Bill Code: 50  
 CUPA Permit Date: Not reported  
 HAZMAT Permit Date: Not reported  
 HAZMAT Inspection Date: Not reported  
 Hazmat Date BP Received: Not reported  
 UST Permit Dt: Not reported  
 UST Inspection Date: Not reported  
 UST Tank Test Date: Not reported  
 Number of Tanks: 0  
 UST Tank Test Date: Not reported  
 SIC Code: Not reported  
 Tier Permitting: Not reported  
 AST Bill Code: Not reported  
 CALARP Bill Code: Not reported

**C30**  
**ESE**  
**1/8-1/4**  
**0.165 mi.**  
**871 ft.**

**SONOMA AVENUE SITE**  
**1035 SONOMA AVENUE**  
**SACRAMENTO, CA 95815**  
**Site 3 of 3 in cluster C**

**RESPONSE** **S101272817**  
**ENVIROSTOR** **N/A**  
**HIST Cal-Sites**  
**LIENS**  
**HIST CORTESE**  
**CERS**

**Relative:**  
**Higher**  
**Actual:**  
**38 ft.**

RESPONSE:  
 Name: SONOMA AVENUE SITE  
 Address: 1035 SONOMA AVENUE  
 City,State,Zip: SACRAMENTO, CA 95815  
 Facility ID: 34990001  
 Site Type: State Response  
 Site Type Detail: State Response or NPL  
 Acres: 0.13  
 National Priorities List: NO  
 Cleanup Oversight Agencies: SMBRP  
 Lead Agency Description: DTSC - Site Cleanup Program  
 Project Manager: Not reported  
 Supervisor: Juan Peng  
 Division Branch: Cleanup Sacramento  
 Site Code: 100344  
 Site Mgmt. Req.: NONE SPECIFIED  
 Assembly: 07

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SONOMA AVENUE SITE (Continued)**

**S101272817**

Senate: 06  
Special Program Status: Not reported  
Status: Certified  
Status Date: 02/05/1996  
Restricted Use: NO  
Funding: Orphan Funds  
Latitude: 38.62405  
Longitude: -121.4430  
APN: 26500210260000  
Past Use: ILLEGAL DUMPING  
Potential COC : Lead  
Confirmed COC: Lead  
Potential Description: SOIL  
Alias Name: SONOMA AVENUE SITE  
Alias Type: Alternate Name  
Alias Name: 26500210260000  
Alias Type: APN  
Alias Name: 110033615853  
Alias Type: EPA (FRS #)  
Alias Name: 100344  
Alias Type: Project Code (Site Code)  
Alias Name: 34990001  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Completion Report  
Completed Date: 01/23/1996

Comments: Approximately 189 cy of lead contaminated soils were transported for disposal to a Class I landfill. Soil samples were analyzed by a mobile XRF lab in conjunction with a state certified lab during the excavation to ensure complete removal of the contaminated soils. Backfill was applied to the excavated areas, spread evenly, and compacted. All work was performed in accordance with the approved Removal Action Workplan. No further action is required. RA; 0.13 acres land returned

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Workplan  
Completed Date: 09/05/1995

Comments: Removal Action Workplan approved detailing a plan to excavate and dispose of lead contaminated soils. Soil was contaminated as a result of illegal disposal to the ground.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Assessment Report  
Completed Date: 10/26/1992

Comments: Site Screening completed. Lead levels in soil samples collected from the site ranged from 2400 ppm to 9200 ppm. Site is fenced. Recommend Removal Action to remediate soil.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Lien  
Completed Date: 11/24/1997

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SONOMA AVENUE SITE (Continued)**

**S101272817**

Comments: DTSC has sent a lien for recording to the Sacramento County Recorders office for costs expected by a hazardous substances release.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Cost Recovery Settlements/Decrees  
Completed Date: 11/23/1999  
Comments: DTSC settled its cost recovery action with the defend defendants when the settlement agreement and consent decree was filed in the U.S. District Court on November 23, 1999.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Final Determination of Non-Compliance  
Completed Date: 04/13/1994  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: 02/05/1996  
Comments: All response activities have been completed and no further action is required. Approximately 189cy of lead contaminated soils were transported for disposal to a Class I landfill. All work was performed in accordance with the approved Removal Action Workplan. Volume disposed to landfill: 189cy. Acres of land returned/ released for reuse: 0.13; Cleaned up, any land use allowed.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: CEQA - Initial Study/ Neg. Declaration  
Completed Date: 09/22/1995  
Comments: A Notice of Determination was filed with the Office of Planning and Research on September 22, 1995. A Negative Declaration for the soil removal was adopted.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)  
Completed Date: 09/27/1993  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fence & Post Order  
Completed Date: 10/03/1989  
Comments: Order to fence and post.

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SONOMA AVENUE SITE (Continued)**

**S101272817**

**ENVIROSTOR:**

Name: SONOMA AVENUE SITE  
Address: 1035 SONOMA AVENUE  
City,State,Zip: SACRAMENTO, CA 95815  
Facility ID: 34990001  
Status: Certified  
Status Date: 02/05/1996  
Site Code: 100344  
Site Type: State Response  
Site Type Detailed: State Response or NPL  
Acres: 0.13  
NPL: NO  
Regulatory Agencies: SMBRP  
Lead Agency: SMBRP  
Program Manager: Not reported  
Supervisor: Juan Peng  
Division Branch: Cleanup Sacramento  
Assembly: 07  
Senate: 06  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Orphan Funds  
Latitude: 38.62405  
Longitude: -121.4430  
APN: 26500210260000  
Past Use: ILLEGAL DUMPING  
Potential COC: Lead  
Confirmed COC: Lead  
Potential Description: SOIL  
Alias Name: SONOMA AVENUE SITE  
Alias Type: Alternate Name  
Alias Name: 26500210260000  
Alias Type: APN  
Alias Name: 110033615853  
Alias Type: EPA (FRS #)  
Alias Name: 100344  
Alias Type: Project Code (Site Code)  
Alias Name: 34990001  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Completion Report  
Completed Date: 01/23/1996  
Comments: Approximately 189 cy of lead contaminated soils were transported for disposal to a Class I landfill. Soil samples were analyzed by a mobile XRF lab in conjunction with a state certified lab during the excavation to ensure complete removal of the contaminated soils. Backfill was applied to the excavated areas, spread evenly, and compacted. All work was performed in accordance with the approved Removal Action Workplan. No further action is required. RA; 0.13 acres land returned

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SONOMA AVENUE SITE (Continued)**

**S101272817**

Completed Document Type: Removal Action Workplan  
Completed Date: 09/05/1995  
Comments: Removal Action Workplan approved detailing a plan to excavate and dispose of lead contaminated soils. Soil was contaminated as a result of illegal disposal to the ground.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Assessment Report  
Completed Date: 10/26/1992  
Comments: Site Screening completed. Lead levels in soil samples collected from the site ranged from 2400 ppm to 9200 ppm. Site is fenced. Recommend Removal Action to remediate soil.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Lien  
Completed Date: 11/24/1997  
Comments: DTSC has sent a lien for recording to the Sacramento County Recorders office for costs expected by a hazardous substances release.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Cost Recovery Settlements/Decrees  
Completed Date: 11/23/1999  
Comments: DTSC settled its cost recovery action with the defend defendants when the settlement agreement and consent decree was filed in the U.S. District Court on November 23, 1999.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Final Determination of Non-Compliance  
Completed Date: 04/13/1994  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: 02/05/1996  
Comments: All response activities have been completed and no further action is required. Approximately 189cy of lead contaminated soils were transported for disposal to a Class I landfill. All work was performed in accordance with the approved Removal Action Workplan. Volume disposed to landfill: 189cy. Acres of land returned/ released for reuse: 0.13; Cleaned up, any land use allowed.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: CEQA - Initial Study/ Neg. Declaration  
Completed Date: 09/22/1995  
Comments: A Notice of Determination was filed with the Office of Planning and Research on September 22, 1995. A Negative Declaration for the soil removal was adopted.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Unilateral Order (I/SE, RAO, CAO, EPA AO)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SONOMA AVENUE SITE (Continued)**

**S101272817**

Completed Date: 09/27/1993  
Comments: Not reported  
  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fence & Post Order  
Completed Date: 10/03/1989  
Comments: Order to fence and post.  
  
Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**Calsite:**

Name: SONOMA AVENUE SITE  
Address: 1035 SONOMA AVENUE  
City: SACRAMENTO  
Region: SACRAMENTO  
Facility ID: 34990001  
Facility Type: STATE  
Type: STATE FUNDED SITE  
Branch: CC  
Branch Name: CENTRAL CALIFORNIA  
File Name: SONOMA AVENUE SITE  
State Senate District: 02051996  
Status: CERTIFIED AS HAVING BEEN REMEDIED SATISFACTORILY UNDER DTSC OVERSIGHT  
Status Name: CERTIFIED  
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL  
NPL: Not Listed  
SIC Code: 99  
SIC Name: NONCLASSIFIABLE ESTABLISHMENTS  
Access: Controlled  
Cortese: Not reported  
Hazardous Ranking Score: Not reported  
Date Site Hazard Ranked: Not reported  
Groundwater Contamination: Not reported  
Staff Member Responsible for Site: SROSS  
Supervisor Responsible for Site: Not reported  
Region Water Control Board: CV  
Region Water Control Board Name: CENTRAL VALLEY  
Lat/Long Direction: Not reported  
Lat/Long (dms): 0 0 0 / 0 0 0  
Lat/long Method: Not reported  
Lat/Long Description: Not reported  
State Assembly District Code: 09  
State Senate District Code: 06  
Facility ID: 34990001  
Activity: SS  
Activity Name: SITE SCREENING  
AWP Code: Not reported  
Proposed Budget: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SONOMA AVENUE SITE (Continued)**

**S101272817**

AWP Completion Date: Not reported  
Revised Due Date: Not reported  
Comments Date: 10261992  
Est Person-Yrs to complete: 0  
Estimated Size: Not reported  
Request to Delete Activity: Not reported  
Activity Status: CERT  
Definition of Status: CERTIFIED  
Liquids Removed (Gals): 0  
Liquids Treated (Gals): 0  
Action Included Capping: Not reported  
Well Decommissioned: Not reported  
Action Included Fencing: Not reported  
Removal Action Certification: Not reported  
Activity Comments: Not reported  
For Commercial Reuse: 0  
For Industrial Reuse: 0  
For Residential Reuse: 0  
Unknown Type: 0  
Facility ID: 34990001  
Activity: ORDER  
Activity Name: I/SE, IORSE, FFA, FFSRA, VCA, EA  
AWP Code: Not reported  
Proposed Budget: 0  
AWP Completion Date: Not reported  
Revised Due Date: Not reported  
Comments Date: 09271993  
Est Person-Yrs to complete: 0  
Estimated Size: Not reported  
Request to Delete Activity: Not reported  
Activity Status: CERT  
Definition of Status: CERTIFIED  
Liquids Removed (Gals): 0  
Liquids Treated (Gals): 0  
Action Included Capping: Not reported  
Well Decommissioned: Not reported  
Action Included Fencing: Not reported  
Removal Action Certification: Not reported  
Activity Comments: Not reported  
For Commercial Reuse: 0  
For Industrial Reuse: 0  
For Residential Reuse: 0  
Unknown Type: 0  
Facility ID: 34990001  
Activity: RAW  
Activity Name: REMOVAL ACTION WORKPLAN  
AWP Code: Not reported  
Proposed Budget: 0  
AWP Completion Date: Not reported  
Revised Due Date: Not reported  
Comments Date: 09051995  
Est Person-Yrs to complete: 0  
Estimated Size: Not reported  
Request to Delete Activity: Not reported  
Activity Status: CERT  
Definition of Status: CERTIFIED  
Liquids Removed (Gals): 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SONOMA AVENUE SITE (Continued)**

**S101272817**

Liquids Treated (Gals): 0  
Action Included Capping: Not reported  
Well Decommissioned: Not reported  
Action Included Fencing: Not reported  
Removal Action Certification: Not reported  
Activity Comments: Not reported  
For Commercial Reuse: 0  
For Industrial Reuse: 0  
For Residential Reuse: 0  
Unknown Type: 0  
Facility ID: 34990001  
Activity: CEQA  
Activity Name: CEQA INCLUDING NEGATIVE DECS  
AWP Code: Not reported  
Proposed Budget: 0  
AWP Completion Date: Not reported  
Revised Due Date: Not reported  
Comments Date: 09221995  
Est Person-Yrs to complete: 0  
Estimated Size: Not reported  
Request to Delete Activity: Not reported  
Activity Status: CERT  
Definition of Status: CERTIFIED  
Liquids Removed (Gals): 0  
Liquids Treated (Gals): 0  
Action Included Capping: Not reported  
Well Decommissioned: Not reported  
Action Included Fencing: Not reported  
Removal Action Certification: Not reported  
Activity Comments: Not reported  
For Commercial Reuse: 0  
For Industrial Reuse: 0  
For Residential Reuse: 0  
Unknown Type: 0  
Facility ID: 34990001  
Activity: RA  
Activity Name: REMOVAL ACTION  
AWP Code: Not reported  
Proposed Budget: 0  
AWP Completion Date: Not reported  
Revised Due Date: Not reported  
Comments Date: 01231996  
Est Person-Yrs to complete: 0  
Estimated Size: S  
Request to Delete Activity: Not reported  
Activity Status: CERT  
Definition of Status: CERTIFIED  
Liquids Removed (Gals): 0  
Liquids Treated (Gals): 0  
Action Included Capping: Not reported  
Well Decommissioned: Not reported  
Action Included Fencing: Not reported  
Removal Action Certification: N  
Activity Comments: SEE CERT REMOVAL INFO.  
For Commercial Reuse: 0  
For Industrial Reuse: 0  
For Residential Reuse: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SONOMA AVENUE SITE (Continued)**

**S101272817**

Unknown Type: 0  
Facility ID: 34990001  
Activity: CERT  
Activity Name: CERTIFICATION  
AWP Code: Not reported  
Proposed Budget: 0  
AWP Completion Date: Not reported  
Revised Due Date: Not reported  
Comments Date: 02051996  
Est Person-Yrs to complete: 0  
Estimated Size: Not reported  
Request to Delete Activity: Not reported  
Activity Status: CERT  
Definition of Status: CERTIFIED  
Liquids Removed (Gals): 189  
Liquids Treated (Gals): 0  
Action Included Capping: Not reported  
Well Decommissioned: Not reported  
Action Included Fencing: Not reported  
Removal Action Certification: N  
Activity Comments: EXCAVATION AND REDISPOSAL OF LEAD CONTAMINATED SOILS TO A CLASS  
ILANDFILL. 0.13 ACRES RETURNED/RELEASED FOR REUSE.  
For Commercial Reuse: 0  
For Industrial Reuse: 0  
For Residential Reuse: 0  
Unknown Type: 0  
Facility ID: 34990001  
Activity: COST  
Activity Name: COST RECOVERY  
AWP Code: LIEN  
Proposed Budget: 0  
AWP Completion Date: Not reported  
Revised Due Date: Not reported  
Comments Date: 11241997  
Est Person-Yrs to complete: 0  
Estimated Size: Not reported  
Request to Delete Activity: Not reported  
Activity Status: CERT  
Definition of Status: CERTIFIED  
Liquids Removed (Gals): 0  
Liquids Treated (Gals): 0  
Action Included Capping: Not reported  
Well Decommissioned: Not reported  
Action Included Fencing: Not reported  
Removal Action Certification: Not reported  
Activity Comments: Not reported  
For Commercial Reuse: 0  
For Industrial Reuse: 0  
For Residential Reuse: 0  
Unknown Type: 0  
Facility ID: 34990001  
Activity: COST  
Activity Name: COST RECOVERY  
AWP Code: SOF  
Proposed Budget: 0  
AWP Completion Date: Not reported  
Revised Due Date: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SONOMA AVENUE SITE (Continued)**

**S101272817**

|                               |  |
|-------------------------------|--|
| Comments Date:                | 11241997   |
| Est Person-Yrs to complete:   | 0  |
| Estimated Size:               | Not reported   |
| Request to Delete Activity:   | Not reported   |
| Activity Status:              | CERT   |
| Definition of Status:         | CERTIFIED  |
| Liquids Removed (Gals):       | 0  |
| Liquids Treated (Gals):       | 0  |
| Action Included Capping:      | Not reported   |
| Well Decommissioned:          | Not reported   |
| Action Included Fencing:      | Not reported   |
| Removal Action Certification: | Not reported   |
| Activity Comments:            | Not reported   |
| For Commercial Reuse:         | 0  |
| For Industrial Reuse:         | 0  |
| For Residential Reuse:        | 0  |
| Unknown Type:                 | 0  |
| Facility ID:                  | 34990001   |
| Activity:                     | COST   |
| Activity Name:                | COST RECOVERY  |
| AWP Code:                     | STMT   |
| Proposed Budget:              | 0  |
| AWP Completion Date:          | Not reported   |
| Revised Due Date:             | Not reported   |
| Comments Date:                | 11231999   |
| Est Person-Yrs to complete:   | 0  |
| Estimated Size:               | Not reported   |
| Request to Delete Activity:   | Not reported   |
| Activity Status:              | CERT   |
| Definition of Status:         | CERTIFIED  |
| Liquids Removed (Gals):       | 0  |
| Liquids Treated (Gals):       | 0  |
| Action Included Capping:      | Not reported   |
| Well Decommissioned:          | Not reported   |
| Action Included Fencing:      | Not reported   |
| Removal Action Certification: | Not reported   |
| Activity Comments:            | Not reported   |
| For Commercial Reuse:         | 0  |
| For Industrial Reuse:         | 0  |
| For Residential Reuse:        | 0  |
| Unknown Type:                 | 0  |
| Alternate Address:            | 1035 SONOMA AVENUE   |
| Alternate City,St,Zip:        | SACRAMENTO, CA 95815   |
| Background Info:              | The site is a 0.13 acre undeveloped lot. In 1989, the responsible parties transported and disposed of lead contaminated soils and battery parts originating from Sierra Battery Sales in 11 stockpiles throughout the site. After numerous attempts to have the responsible parties conduct the cleanup, DTSC through use of its contractor removed the contaminated soils and backfilled excavated areas. The removal met preliminary remediation goals set in the Removal Action Workplan and no further response is necessary. Site was certified 2/5/96. |
| Comments Date:                | 01231996   |
| Comments:                     | Approximately 189 cy of lead contaminated soils were   |
| Comments Date:                | 01231996   |
| Comments:                     | transported for disposal to a Class I landfill. Soil   |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SONOMA AVENUE SITE (Continued)**

**S101272817**

Comments Date: 01231996  
Comments: samples were analyzed by a mobile XRF lab in conjunction  
Comments Date: 01231996  
Comments: with a state certified lab during the excavation to ensure  
Comments Date: 01231996  
Comments: complete removal of the contaminated soils. Backfill was  
Comments Date: 01231996  
Comments: applied to the excavated areas, spread evenly, and  
Comments Date: 01231996  
Comments: compacted. All work was performed in accordance with the  
Comments Date: 01231996  
Comments: approved Removal Action Workplan. No further action is  
Comments Date: 01231996  
Comments: required.  
Comments Date: 01231996  
Comments: RA; 0.13 acres land returned  
Comments Date: 02051996  
Comments: CERT - All response activities have been completed and no  
Comments Date: 02051996  
Comments: further action is required. Approximately 189cy of lead  
Comments Date: 02051996  
Comments: contaminated soils were transported for disposal to a  
Comments Date: 02051996  
Comments: Class I landfill. All work was performed in accordance with  
Comments Date: 02051996  
Comments: the approved Removal Action Workplan.  
Comments Date: 02051996  
Comments: Volume disposed to landfill: 189cy. Acres of land returned/  
Comments Date: 02051996  
Comments: released for reuse: 0.13; Cleaned up, any land use allowed.  
Comments Date: 02211995  
Comments: State funds allocated to excavate and remove the  
Comments Date: 02211995  
Comments: contaminated soil. Task Orders are being prepared to  
Comments Date: 02211995  
Comments: to encumber the money for the removal action.  
Comments Date: 09051995  
Comments: Removal Action Workplan approved detailing a plan to  
Comments Date: 09051995  
Comments: excavate and dispose of lead contaminated soils. Soil was  
Comments Date: 09051995  
Comments: contaminated as a result of illegal disposal to the ground.  
Comments Date: 09221995  
Comments: CEQA - Notice of Determination was filed with the Office  
Comments Date: 09221995  
Comments: of Planning and Research on September 22, 1995. A  
Comments Date: 09221995  
Comments: Negative Declaration for the soil removal was adopted.  
Comments Date: 10261992  
Comments: Site Screening completed.  
Comments Date: 10261992  
Comments: Lead levels in soil samples collected from the  
Comments Date: 10261992  
Comments: site ranged from 2400 ppm to 9200 ppm. Site is fenced.  
Comments Date: 10261992  
Comments: Recommend Removal Action to remediate soil.  
Comments Date: 11231999

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SONOMA AVENUE SITE (Continued)**

**S101272817**

Comments: COST/STMT - DTSC settled its cost recovery action with the defend  
Comments Date: 11231999  
Comments: defendants when the settlement agreement and consent decree was  
Comments Date: 11231999  
Comments: filed in the U.S. District Court on November 23, 1999.  
Comments Date: 11241997  
Comments: COST/LIEN -- DTSC HAS SENT A LIEN FOR RECORDING TO THE  
Comments Date: 11241997  
Comments: SACRAMENTO COUNTY RECORDER'S OFFICE ON PROPERTY AFFECTED  
Comments Date: 11241997  
Comments: BY A HAZARDOUS SUBSTANCE RELEASE.  
Comments Date: 11241997  
Comments: Not reported  
Comments Date: 11241997  
Comments: COST SOF A Statement of Facts was prepared and transmitted to  
Comments Date: 11241997  
Comments: the Attorney General's Office for filing of a cost recovery  
Comments Date: 11241997  
Comments: action.  
ID Name: CALSTARS CODE  
ID Value: 100344  
Alternate Name: SONOMA AVENUE SITE  
Alternate Name: Not reported  
Special Programs Code: Not reported  
Special Programs Name: Not reported

**LIENS:**

Name: SONOMA AVENUE SITE  
City,State,Zip: SACRAMENTO, CA 95815  
Envirostor Id: 34990001  
Latitude: 38.624056  
Longitude: -121.44305  
Project Mgr: STEVEN ROSS\*  
Project Code: 100344  
If Satisfied: NO  
Date Satisfied: Not reported  
Site Status: CERTIFIED  
Site Type: STATE RESPONSE OR NPL  
Completed: 11/24/1997  
Lien Amount: \$180,638.17  
Amount Remaining: Not reported  
APNS: 2.65E+13  
Description: The site is a 0.13 acre undeveloped lot. In 1989, the responsible parties transported and disposed of lead contaminated soils and battery parts originating from Sierra Battery Sales in 11 stockpiles throughout the site. After numerous attempts to have the responsible parties conduct the cleanup, DTSC through use of its contractor removed the contaminated soils and backfilled excavated areas. The removal met preliminary remediation goals set in the Removal Action Workplan and no further response is necessary. Site was certified 2/5/96.

**HIST CORTESE:**

edr\_fname: SONOMA AVENUE SITE  
edr\_fadd1: 1035 SONOMA  
City,State,Zip: SACRAMENTO, CA 95815

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SONOMA AVENUE SITE (Continued)**

**S101272817**

Region: CORTESE  
 Facility County Code: 34  
 Reg By: CALSI  
 Reg Id: 34990001

CERS:  
 Name: SONOMA AVENUE SITE  
 Address: 1035 SONOMA AVENUE  
 City,State,Zip: SACRAMENTO, CA 95815  
 Site ID: 610181  
 CERS ID: 34990001  
 CERS Description: State Response

Affiliation:  
 Affiliation Type Desc: Supervisor  
 Entity Name: William Beckman  
 Entity Title: Not reported  
 Affiliation Address: Not reported  
 Affiliation City: Not reported  
 Affiliation State: Not reported  
 Affiliation Country: Not reported  
 Affiliation Zip: Not reported  
 Affiliation Phone: ,

**D31**  
**SSW**  
**1/8-1/4**  
**0.198 mi.**  
**1044 ft.**

**CITY OF SAC - WELL 143**  
**851 ACACIA AVE**  
**SACRAMENTO, CA 95815**

**CERS HAZ WASTE**  
**Sacramento Co. ML**  
**CERS**

**S123533564**  
**N/A**

**Site 1 of 2 in cluster D**

**Relative:**  
**Lower**  
**Actual:**  
**26 ft.**

CERS HAZ WASTE:  
 Name: CITY OF SAC - WELL 143  
 Address: 851 ACACIA AVE  
 City,State,Zip: SACRAMENTO, CA 95815  
 Site ID: 63776  
 CERS ID: 10223017  
 CERS Description: Hazardous Chemical Management

Name: CITY OF SAC - WELL 143  
 Address: 851 ACACIA AVE  
 City,State,Zip: SACRAMENTO, CA 95815  
 Site ID: 63776  
 CERS ID: 10223017  
 CERS Description: Hazardous Waste Generator

Sacramento Co. ML:  
 Name: CITY OF SAC - WELL 143  
 Address: 851 ACACIA AVE  
 City,State,Zip: SACRAMENTO, CA 95815  
 Facility Id: Not reported  
 Facility Status: Not reported  
 FD: Not reported  
 Billing Codes BP: A  
 Billing Codes UST: Not reported  
 WG Bill Code: A  
 Target Property Bill Cod: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CITY OF SAC - WELL 143 (Continued)**

**S123533564**

Food Bill Code: Not reported  
CUPA Permit Date: Not reported  
HAZMAT Permit Date: Not reported  
HAZMAT Inspection Date: Not reported  
Hazmat Date BP Received: Not reported  
UST Permit Dt: Not reported  
UST Inspection Date: Not reported  
UST Tank Test Date: Not reported  
Number of Tanks: Not reported  
UST Tank Test Date: Not reported  
SIC Code: Not reported  
Tier Permitting: Not reported  
AST Bill Code: Not reported  
CALARP Bill Code: A

**CERS:**

Name: CITY OF SAC - WELL 143  
Address: 851 ACACIA AVE  
City,State,Zip: SACRAMENTO, CA 95815  
Site ID: 63776  
CERS ID: 10223017  
CERS Description: Chemical Storage Facilities

**Evaluation:**

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 11-14-2018  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Sacramento County Env Management Department  
Eval Program: CalARP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 06-16-2022  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: No hazardous waste violations were observed at the time of inspection. The site walkthrough was conducted with Water Production Superintendent David Herrmann on June 16, 2022. The inspection report was emailed to Mr. Herrmann on June 23, 2022 at the following email address: dherrmann@cityofsacramento.org

Eval Division: Sacramento County Env Management Department  
Eval Program: HW  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 06-16-2022  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Sacramento County Env Management Department  
Eval Program: CalARP  
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 06-16-2022

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CITY OF SAC - WELL 143 (Continued)**

**S123533564**

Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: No hazardous materials business plan violations were observed at the time of inspection. The site walkthrough was conducted with Water Production Superintendent David Herrmann on June 16, 2022. The inspection report was emailed to Mr. Herrmann on June 23, 2022 at the following email address: dherrmann@cityofsacramento.org  
Eval Division: Sacramento County Env Management Department  
Eval Program: HMRRP  
Eval Source: CERS,  
  
Eval General Type: Compliance Evaluation Inspection  
Eval Date: 10-27-2015  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Sacramento County Env Management Department  
Eval Program: HMRRP  
Eval Source: CERS,  
  
Eval General Type: Compliance Evaluation Inspection  
Eval Date: 10-27-2015  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Sacramento County Env Management Department  
Eval Program: CalARP  
Eval Source: CERS,  
  
Eval General Type: Compliance Evaluation Inspection  
Eval Date: 11-14-2018  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: No violations observed at the time of inspection.  
Eval Division: Sacramento County Env Management Department  
Eval Program: HMRRP  
Eval Source: CERS,

Coordinates:  
Site ID: 63776  
Facility Name: CITY OF SAC - WELL 143  
Env Int Type Code: HMBP  
Program ID: 10223017  
Coord Name: Not reported  
Ref Point Type Desc: Unknown,  
Latitude: 38.622320  
Longitude: -121.447070

Affiliation:  
Affiliation Type Desc: CUPA District  
Entity Name: Sacramento County Environmental Management Departm  
Entity Title: Not reported  
Affiliation Address: 11080 WHITE ROCK ROAD, STE. 200  
Affiliation City: RANCHO CORDOVA  
Affiliation State: CA  
Affiliation Country: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

CITY OF SAC - WELL 143 (Continued)

S123533564

Affiliation Zip: 95670  
Affiliation Phone: (916) 875-8550,

Affiliation Type Desc: Document Preparer  
Entity Name: David Herrmann  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact  
Entity Name: Sharneel Kumar  
Entity Title: Not reported  
Affiliation Address: 915 I Street 4th Floor  
Affiliation City: Sacramento  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 95814  
Affiliation Phone: ,

Affiliation Type Desc: Facility Mailing Address  
Entity Name: Mailing Address  
Entity Title: Not reported  
Affiliation Address: 301 Water Street  
Affiliation City: SACRAMENTO  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 95811  
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner  
Entity Name: City of Sacramento  
Entity Title: Not reported  
Affiliation Address: 1391 35th Avenue  
Affiliation City: Sacramento  
Affiliation State: CA  
Affiliation Country: United States  
Affiliation Zip: 95822  
Affiliation Phone: (916) 808-5652,

Affiliation Type Desc: Operator  
Entity Name: City of Sacramento  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: (916) 808-5652,

Affiliation Type Desc: Parent Corporation  
Entity Name: CITY OF SAC - WELLS  
Entity Title: Not reported  
Affiliation Address: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CITY OF SAC - WELL 143 (Continued)**

**S123533564**

Affiliation City: Not reported  
 Affiliation State: Not reported  
 Affiliation Country: Not reported  
 Affiliation Zip: Not reported  
 Affiliation Phone: ,

Affiliation Type Desc: Property Owner  
 Entity Name: CITY OF SACRAMENTO  
 Entity Title: Not reported  
 Affiliation Address: 1391 35th Avenue  
 Affiliation City: SACRAMENTO  
 Affiliation State: CA  
 Affiliation Country: United States  
 Affiliation Zip: 95822  
 Affiliation Phone: (916) 808-1343,

Affiliation Type Desc: Identification Signer  
 Entity Name: David Herrmann  
 Entity Title: Water Production Superintendent  
 Affiliation Address: Not reported  
 Affiliation City: Not reported  
 Affiliation State: Not reported  
 Affiliation Country: Not reported  
 Affiliation Zip: Not reported  
 Affiliation Phone: ,

**D32**  
**South**  
**1/8-1/4**  
**0.201 mi.**  
**1063 ft.**

**WELL 143**  
**3001 RIO LINDA BLVD**  
**SACRAMENTO, CA 95815**

**RCRA NonGen / NLR**    **1024873533**  
**CAL000442185**

**Site 2 of 2 in cluster D**

**Relative:**  
**Lower**  
**Actual:**  
**28 ft.**

RCRA Listings:  
 Date Form Received by Agency: 20190103  
 Handler Name: Well 143  
 Handler Address: 3001 RIO LINDA BLVD  
 Handler City,State,Zip: SACRAMENTO, CA 95815  
 EPA ID: CAL000442185  
 Contact Name: DAVID HERMANN  
 Contact Address: 301 WATER ST  
 Contact City,State,Zip: SACRAMENTO, CA 95811  
 Contact Telephone: 916-808-5652  
 Contact Fax: 916-808-4969  
 Contact Email: DHERMANN@CITYOFSACRAMENTO.ORG  
 Contact Title: Not reported  
 EPA Region: 09  
 Land Type: Not reported  
 Federal Waste Generator Description: Not a generator, verified  
 Non-Notifier: Not reported  
 Biennial Report Cycle: Not reported  
 Accessibility: Not reported  
 Active Site Indicator: Handler Activities  
 State District Owner: Not reported  
 State District: Not reported  
 Mailing Address: 301 WATER ST  
 Mailing City,State,Zip: SACRAMENTO, CA 95811  
 Owner Name: City Of Sacramento Dept Of Utilitie

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**WELL 143 (Continued)**

**1024873533**

|   |                     |
|---|---------------------|
| Owner Type:   | Other               |
| Operator Name:  | David Hermann       |
| Operator Type:  | Other               |
| Short-Term Generator Activity:                                | No                  |
| Importer Activity:  | No                  |
| Mixed Waste Generator:  | No                  |
| Transporter Activity:   | No                  |
| Transfer Facility Activity:                                   | No                  |
| Recycler Activity with Storage:                               | No                  |
| Small Quantity On-Site Burner Exemption:                      | No                  |
| Smelting Melting and Refining Furnace Exemption:              | No                  |
| Underground Injection Control:                                | No                  |
| Off-Site Waste Receipt:                                       | No                  |
| Universal Waste Indicator:                                    | Yes                 |
| Universal Waste Destination Facility:                         | Yes                 |
| Federal Universal Waste:                                      | No                  |
| Active Site State-Reg Handler:                                | ---                 |
| Federal Facility Indicator:                                   | Not reported        |
| Hazardous Secondary Material Indicator:                       | N                   |
| Sub-Part K Indicator:   | Not reported        |
| 2018 GPRC Permit Baseline:                                    | Not on the Baseline |
| 2018 GPRC Renewals Baseline:                                  | Not on the Baseline |
| 202 GPRC Corrective Action Baseline:                          | No                  |
| Subject to Corrective Action Universe:                        | No                  |
| Non-TSDFs Where RCRA CA has Been Imposed Universe:            | No                  |
| Corrective Action Priority Ranking:                           | No NCAPS ranking    |
| Environmental Control Indicator:                              | No                  |
| Institutional Control Indicator:                              | No                  |
| Human Exposure Controls Indicator:                            | N/A                 |
| Groundwater Controls Indicator:                               | N/A                 |
| Significant Non-Complier Universe:                            | No                  |
| Unaddressed Significant Non-Complier Universe:                | No                  |
| Addressed Significant Non-Complier Universe:                  | No                  |
| Significant Non-Complier With a Compliance Schedule Universe: | No                  |
| Financial Assurance Required:                                 | Not reported        |
| Handler Date of Last Change:                                  | 20190222            |
| Recognized Trader-Importer:                                   | No                  |
| Recognized Trader-Exporter:                                   | No                  |
| Importer of Spent Lead Acid Batteries:                        | No                  |
| Exporter of Spent Lead Acid Batteries:                        | No                  |
| Recycler Activity Without Storage:                            | No                  |
| Manifest Broker:  | No                  |
| Sub-Part P Indicator:   | No                  |

Handler - Owner Operator:

|                                |                                     |
|--------------------------------|-------------------------------------|
| Owner/Operator Indicator:      | Owner                               |
| Owner/Operator Name:           | CITY OF SACRAMENTO DEPT OF UTILITIE |
| Legal Status:                  | Other                               |
| Date Became Current:           | Not reported                        |
| Date Ended Current:            | Not reported                        |
| Owner/Operator Address:        | 1395 35TH AVE                       |
| Owner/Operator City,State,Zip: | SACRAMENTO, CA 95822                |
| Owner/Operator Telephone:      | 916-808-3101                        |
| Owner/Operator Telephone Ext:  | Not reported                        |
| Owner/Operator Fax:            | Not reported                        |
| Owner/Operator Email:          | Not reported                        |

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**WELL 143 (Continued)**

**1024873533**

|                                    |                      |
|------------------------------------|----------------------|
| Owner/Operator Indicator:          | Operator             |
| Owner/Operator Name: DAVID HERMANN |                      |
| Legal Status:                      | Other                |
| Date Became Current:               | Not reported         |
| Date Ended Current:                | Not reported         |
| Owner/Operator Address:            | 301 WATER ST         |
| Owner/Operator City,State,Zip:     | SACRAMENTO, CA 95811 |
| Owner/Operator Telephone:          | 916-808-5652         |
| Owner/Operator Telephone Ext:      | Not reported         |
| Owner/Operator Fax:                | Not reported         |
| Owner/Operator Email:              | Not reported         |

Historic Generators:

|  |                           |
|--|---------------------------|
| Receive Date:                              | 20190103                  |
| Handler Name: WELL 143                     |                           |
| Federal Waste Generator Description:       | Not a generator, verified |
| State District Owner:                      | Not reported              |
| Large Quantity Handler of Universal Waste: | No                        |
| Recognized Trader Importer:                | No                        |
| Recognized Trader Exporter:                | No                        |
| Spent Lead Acid Battery Importer:          | No                        |
| Spent Lead Acid Battery Exporter:          | No                        |
| Current Record:                            | Yes                       |
| Non Storage Recycler Activity:             | Not reported              |
| Electronic Manifest Broker:                | Not reported              |

List of NAICS Codes and Descriptions:

|                    |                                     |
|--------------------|-------------------------------------|
| NAICS Code:        | 221310                              |
| NAICS Description: | WATER SUPPLY AND IRRIGATION SYSTEMS |

Facility Has Received Notices of Violations:

|             |                     |
|-------------|---------------------|
| Violations: | No Violations Found |
|-------------|---------------------|

Evaluation Action Summary:

|              |                      |
|--------------|----------------------|
| Evaluations: | No Evaluations Found |
|--------------|----------------------|

**33**  
**NE**  
**1/8-1/4**  
**0.216 mi.**  
**1143 ft.**

**MARIA SANTILLAN**  
**1015 RIVERA DRIVE**  
**SACRAMENTO, CA 95838**

**RCRA NonGen / NLR**    **1024767545**  
**CAC002987422**

**Relative:**  
**Higher**  
**Actual:**  
**34 ft.**

|                               |                                  |
|-------------------------------|----------------------------------|
| RCRA Listings:                |                                  |
| Date Form Received by Agency: | 20181031                         |
| Handler Name:                 | Maria Santillan                  |
| Handler Address:              | 1015 RIVERA DRIVE                |
| Handler City,State,Zip:       | SACRAMENTO, CA 95838             |
| EPA ID:                       | CAC002987422                     |
| Contact Name:                 | MARIA SANTILLAN                  |
| Contact Address:              | 1015 RIVERA DRIVE                |
| Contact City,State,Zip:       | SACRAMENTO, CA 95838             |
| Contact Telephone:            | 510-861-1363                     |
| Contact Fax:                  | Not reported                     |
| Contact Email:                | CAROLINA.NAVA@ATIRESTORATION.COM |
| Contact Title:                | Not reported                     |

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MARIA SANTILLAN (Continued)**

**1024767545**

|   |                           |
|---|---------------------------|
| EPA Region:   | 09                        |
| Land Type:  | Not reported              |
| Federal Waste Generator Description:                          | Not a generator, verified |
| Non-Notifier:   | Not reported              |
| Biennial Report Cycle:  | Not reported              |
| Accessibility:  | Not reported              |
| Active Site Indicator:  | Handler Activities        |
| State District Owner:   | Not reported              |
| State District:   | Not reported              |
| Mailing Address:  | 1015 RIVERA DRIVE         |
| Mailing City,State,Zip:                                       | SACRAMENTO, CA 95838      |
| Owner Name:   | Maria Santillan           |
| Owner Type:   | Other                     |
| Operator Name:  | Maria Santillan           |
| Operator Type:  | Other                     |
| Short-Term Generator Activity:                                | No                        |
| Importer Activity:  | No                        |
| Mixed Waste Generator:  | No                        |
| Transporter Activity:   | No                        |
| Transfer Facility Activity:                                   | No                        |
| Recycler Activity with Storage:                               | No                        |
| Small Quantity On-Site Burner Exemption:                      | No                        |
| Smelting Melting and Refining Furnace Exemption:              | No                        |
| Underground Injection Control:                                | No                        |
| Off-Site Waste Receipt:                                       | No                        |
| Universal Waste Indicator:                                    | Yes                       |
| Universal Waste Destination Facility:                         | Yes                       |
| Federal Universal Waste:                                      | No                        |
| Active Site State-Reg Handler:                                | ---                       |
| Federal Facility Indicator:                                   | Not reported              |
| Hazardous Secondary Material Indicator:                       | N                         |
| Sub-Part K Indicator:   | Not reported              |
| 2018 GPRC Permit Baseline:                                    | Not on the Baseline       |
| 2018 GPRC Renewals Baseline:                                  | Not on the Baseline       |
| 202 GPRC Corrective Action Baseline:                          | No                        |
| Subject to Corrective Action Universe:                        | No                        |
| Non-TSDs Where RCRA CA has Been Imposed Universe:             | No                        |
| Corrective Action Priority Ranking:                           | No NCAPS ranking          |
| Environmental Control Indicator:                              | No                        |
| Institutional Control Indicator:                              | No                        |
| Human Exposure Controls Indicator:                            | N/A                       |
| Groundwater Controls Indicator:                               | N/A                       |
| Significant Non-Complier Universe:                            | No                        |
| Unaddressed Significant Non-Complier Universe:                | No                        |
| Addressed Significant Non-Complier Universe:                  | No                        |
| Significant Non-Complier With a Compliance Schedule Universe: | No                        |
| Financial Assurance Required:                                 | Not reported              |
| Handler Date of Last Change:                                  | 20181120                  |
| Recognized Trader-Importer:                                   | No                        |
| Recognized Trader-Exporter:                                   | No                        |
| Importer of Spent Lead Acid Batteries:                        | No                        |
| Exporter of Spent Lead Acid Batteries:                        | No                        |
| Recycler Activity Without Storage:                            | No                        |
| Manifest Broker:  | No                        |
| Sub-Part P Indicator:   | No                        |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MARIA SANTILLAN (Continued)**

**1024767545**

Handler - Owner Operator:

|                                |                      |
|--------------------------------|----------------------|
| Owner/Operator Indicator:      | Operator             |
| Owner/Operator Name:           | MARIA SANTILLAN      |
| Legal Status:                  | Other                |
| Date Became Current:           | Not reported         |
| Date Ended Current:            | Not reported         |
| Owner/Operator Address:        | 1015 RIVERA DRIVE    |
| Owner/Operator City,State,Zip: | SACRAMENTO, CA 95838 |
| Owner/Operator Telephone:      | 510-861-1363         |
| Owner/Operator Telephone Ext:  | Not reported         |
| Owner/Operator Fax:            | Not reported         |
| Owner/Operator Email:          | Not reported         |

|                                |                      |
|--------------------------------|----------------------|
| Owner/Operator Indicator:      | Owner                |
| Owner/Operator Name:           | MARIA SANTILLAN      |
| Legal Status:                  | Other                |
| Date Became Current:           | Not reported         |
| Date Ended Current:            | Not reported         |
| Owner/Operator Address:        | 1015 RIVERA DRIVE    |
| Owner/Operator City,State,Zip: | SACRAMENTO, CA 95838 |
| Owner/Operator Telephone:      | 510-861-1363         |
| Owner/Operator Telephone Ext:  | Not reported         |
| Owner/Operator Fax:            | Not reported         |
| Owner/Operator Email:          | Not reported         |

Historic Generators:

|  |                           |
|--|---------------------------|
| Receive Date:                              | 20181031                  |
| Handler Name:                              | MARIA SANTILLAN           |
| Federal Waste Generator Description:       | Not a generator, verified |
| State District Owner:                      | Not reported              |
| Large Quantity Handler of Universal Waste: | No                        |
| Recognized Trader Importer:                | No                        |
| Recognized Trader Exporter:                | No                        |
| Spent Lead Acid Battery Importer:          | No                        |
| Spent Lead Acid Battery Exporter:          | No                        |
| Current Record:                            | Yes                       |
| Non Storage Recycler Activity:             | Not reported              |
| Electronic Manifest Broker:                | Not reported              |

List of NAICS Codes and Descriptions:

|                    |                                     |
|--------------------|-------------------------------------|
| NAICS Code:        | 56299                               |
| NAICS Description: | ALL OTHER WASTE MANAGEMENT SERVICES |

Facility Has Received Notices of Violations:

|             |                     |
|-------------|---------------------|
| Violations: | No Violations Found |
|-------------|---------------------|

Evaluation Action Summary:

|              |                      |
|--------------|----------------------|
| Evaluations: | No Evaluations Found |
|--------------|----------------------|

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**34**  
**East**  
**1/2-1**  
**0.685 mi.**  
**3618 ft.**  
  
**Relative:**  
**Higher**  
  
**Actual:**  
**39 ft.**

**CLEANING CIRCUS**  
**3213 MARYSVILLE BOULEVARD**  
**SACRAMENTO, CA 95815**

**RCRA-SQG** 1000152637  
**ENVIROSTOR** CAD982011637  
**FINDS**  
**ECHO**  
**Sacramento Co. ML**  
**CERS**  
**HWTS**

RCRA Listings:

|  |                          |
|--|--------------------------|
| Date Form Received by Agency:                      | 19960901                 |
| Handler Name:                                      | Cleaning Circus          |
| Handler Address:                                   | 3213 MARYSVILLE BLVD     |
| Handler City,State,Zip:                            | SACRAMENTO, CA 95815     |
| EPA ID:  | CAD982011637             |
| Contact Name:                                      | Not reported             |
| Contact Address:                                   | Not reported             |
| Contact City,State,Zip:                            | Not reported             |
| Contact Telephone:                                 | Not reported             |
| Contact Fax:                                       | Not reported             |
| Contact Email:                                     | Not reported             |
| Contact Title:                                     | Not reported             |
| EPA Region:  | 09                       |
| Land Type:   | Not reported             |
| Federal Waste Generator Description:               | Small Quantity Generator |
| Non-Notifier:                                      | Not reported             |
| Biennial Report Cycle:                             | Not reported             |
| Accessibility:                                     | Not reported             |
| Active Site Indicator:                             | Handler Activities       |
| State District Owner:                              | CA                       |
| State District:                                    | 1                        |
| Mailing Address:                                   | MARYSVILLE BLVD          |
| Mailing City,State,Zip:                            | SACRAMENTO, CA 95815     |
| Owner Name:  | Tine Sunada              |
| Owner Type:  | Private                  |
| Operator Name:                                     | Not Required             |
| Operator Type:                                     | Private                  |
| Short-Term Generator Activity:                     | No                       |
| Importer Activity:                                 | No                       |
| Mixed Waste Generator:                             | No                       |
| Transporter Activity:                              | No                       |
| Transfer Facility Activity:                        | No                       |
| Recycler Activity with Storage:                    | No                       |
| Small Quantity On-Site Burner Exemption:           | No                       |
| Smelting Melting and Refining Furnace Exemption:   | No                       |
| Underground Injection Control:                     | No                       |
| Off-Site Waste Receipt:                            | No                       |
| Universal Waste Indicator:                         | No                       |
| Universal Waste Destination Facility:              | No                       |
| Federal Universal Waste:                           | No                       |
| Active Site State-Reg Handler:                     | ---                      |
| Federal Facility Indicator:                        | Not reported             |
| Hazardous Secondary Material Indicator:            | NN                       |
| Sub-Part K Indicator:                              | Not reported             |
| 2018 GPRA Permit Baseline:                         | Not on the Baseline      |
| 2018 GPRA Renewals Baseline:                       | Not on the Baseline      |
| 202 GPRA Corrective Action Baseline:               | No                       |
| Subject to Corrective Action Universe:             | No                       |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No                       |
| Corrective Action Priority Ranking:                | No NCAPS ranking         |

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CLEANING CIRCUS (Continued)**

**1000152637**

|   |              |
|---|--------------|
| Environmental Control Indicator:                              | No           |
| Institutional Control Indicator:                              | No           |
| Human Exposure Controls Indicator:                            | N/A          |
| Groundwater Controls Indicator:                               | N/A          |
| Significant Non-Complier Universe:                            | No           |
| Unaddressed Significant Non-Complier Universe:                | No           |
| Addressed Significant Non-Complier Universe:                  | No           |
| Significant Non-Complier With a Compliance Schedule Universe: | No           |
| Financial Assurance Required:                                 | Not reported |
| Handler Date of Last Change:                                  | 20000915     |
| Recognized Trader-Importer:                                   | No           |
| Recognized Trader-Exporter:                                   | No           |
| Importer of Spent Lead Acid Batteries:                        | No           |
| Exporter of Spent Lead Acid Batteries:                        | No           |
| Recycler Activity Without Storage:                            | Not reported |
| Manifest Broker:  | Not reported |
| Sub-Part P Indicator:   | No           |

Handler - Owner Operator:

|                                  |                        |
|----------------------------------|------------------------|
| Owner/Operator Indicator:        | Owner                  |
| Owner/Operator Name: TINE SUNADA |                        |
| Legal Status:                    | Private                |
| Date Became Current:             | Not reported           |
| Date Ended Current:              | Not reported           |
| Owner/Operator Address:          | NOT REQUIRED           |
| Owner/Operator City,State,Zip:   | NOT REQUIRED, ME 99999 |
| Owner/Operator Telephone:        | 415-555-1212           |
| Owner/Operator Telephone Ext:    | Not reported           |
| Owner/Operator Fax:              | Not reported           |
| Owner/Operator Email:            | Not reported           |

|                                   |                        |
|-----------------------------------|------------------------|
| Owner/Operator Indicator:         | Operator               |
| Owner/Operator Name: NOT REQUIRED |                        |
| Legal Status:                     | Private                |
| Date Became Current:              | Not reported           |
| Date Ended Current:               | Not reported           |
| Owner/Operator Address:           | NOT REQUIRED           |
| Owner/Operator City,State,Zip:    | NOT REQUIRED, ME 99999 |
| Owner/Operator Telephone:         | 415-555-1212           |
| Owner/Operator Telephone Ext:     | Not reported           |
| Owner/Operator Fax:               | Not reported           |
| Owner/Operator Email:             | Not reported           |

Historic Generators:

|  |                          |
|--|--------------------------|
| Receive Date:                              | 19960901                 |
| Handler Name: CLEANING CIRCUS              |                          |
| Federal Waste Generator Description:       | Small Quantity Generator |
| State District Owner:                      | CA                       |
| Large Quantity Handler of Universal Waste: | No                       |
| Recognized Trader Importer:                | No                       |
| Recognized Trader Exporter:                | No                       |
| Spent Lead Acid Battery Importer:          | No                       |
| Spent Lead Acid Battery Exporter:          | No                       |
| Current Record:                            | Yes                      |
| Non Storage Recycler Activity:             | Not reported             |

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CLEANING CIRCUS (Continued)**

**1000152637**

|  |  |
|--|--|
| Electronic Manifest Broker:                      | Not reported                             |
|  |  |
| List of NAICS Codes and Descriptions:            |  |
| NAICS Codes:                                     | No NAICS Codes Found                     |
|  |  |
| Has the Facility Received Notices of Violations: |  |
| Found Violation:                                 | No                                       |
| Agency Which Determined Violation:               | Not reported                             |
| Violation Short Description:                     | Not reported                             |
| Date Violation was Determined:                   | Not reported                             |
| Actual Return to Compliance Date:                | Not reported                             |
| Return to Compliance Qualifier:                  | Not reported                             |
| Violation Responsible Agency:                    | Not reported                             |
| Scheduled Compliance Date:                       | Not reported                             |
| Enforcement Identifier:                          | Not reported                             |
| Date of Enforcement Action:                      | Not reported                             |
| Enforcement Responsible Agency:                  | Not reported                             |
| Enforcement Docket Number:                       | Not reported                             |
| Enforcement Attorney:                            | Not reported                             |
| Corrective Action Component:                     | Not reported                             |
| Appeal Initiated Date:                           | Not reported                             |
| Appeal Resolution Date:                          | Not reported                             |
| Disposition Status Date:                         | Not reported                             |
| Disposition Status:                              | Not reported                             |
| Disposition Status Description:                  | Not reported                             |
| Consent/Final Order Sequence Number:             | Not reported                             |
| Consent/Final Order Respondent Name:             | Not reported                             |
| Consent/Final Order Lead Agency:                 | Not reported                             |
| Enforcement Type:                                | Not reported                             |
| Enforcement Responsible Person:                  | Not reported                             |
| Enforcement Responsible Sub-Organization:        | Not reported                             |
| SEP Sequence Number:                             | Not reported                             |
| SEP Expenditure Amount:                          | Not reported                             |
| SEP Scheduled Completion Date:                   | Not reported                             |
| SEP Actual Date:                                 | Not reported                             |
| SEP Defaulted Date:                              | Not reported                             |
| SEP Type:  | Not reported                             |
| SEP Type Description:                            | Not reported                             |
| Proposed Amount:                                 | Not reported                             |
| Final Monetary Amount:                           | Not reported                             |
| Paid Amount:                                     | Not reported                             |
| Final Count:                                     | Not reported                             |
| Final Amount:                                    | Not reported                             |
|  |  |
| Evaluation Action Summary:                       |  |
| Evaluation Date:                                 | 19910926                                 |
| Evaluation Responsible Agency:                   | State Contractor/Grantee                 |
| Found Violation:                                 | No                                       |
| Evaluation Type Description:                     | COMPLIANCE EVALUATION INSPECTION ON-SITE |
| Evaluation Responsible Person Identifier:        | R9                                       |
| Evaluation Responsible Sub-Organization:         | Not reported                             |
| Actual Return to Compliance Date:                | Not reported                             |
| Scheduled Compliance Date:                       | Not reported                             |
| Date of Request:                                 | Not reported                             |
| Date Response Received:                          | Not reported                             |
| Request Agency:                                  | Not reported                             |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CLEANING CIRCUS (Continued)**

1000152637

Former Citation: Not reported

**ENVIROSTOR:**

Name: CHRIS CLEANERS (INACTIVE #323)  
Address: 3213 MARYSVILLE BLVD.  
City,State,Zip: SACRAMENTO, CA 95815  
Facility ID: 34720063  
Status: Refer: Other Agency  
Status Date: 11/16/1994  
Site Code: Not reported  
Site Type: Historical  
Site Type Detailed: \* Historical  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Referred - Not Assigned  
Division Branch: Cleanup Sacramento  
Assembly: 07  
Senate: 06  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 38.62583  
Longitude: -121.4327  
APN: NONE SPECIFIED  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: CLEANING CIRCUS.  
Alias Type: Alternate Name  
Alias Name: PAL-PEN CHEM CO.  
Alias Type: Alternate Name  
Alias Name: 34720063  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Discovery  
Completed Date: 03/12/1981  
Comments: FACILITY IDENTIFIED INACTIVE SITE LIST #323. RATIONALE FOR NO FURTHER ACTION: NO PROBLEM BASED ON DRIVE BY.

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CLEANING CIRCUS (Continued)**

**1000152637**

**FINDS:**

Registry ID: 110012429167

[Click Here for FRS Facility Detail Report:](#)

**Environmental Interest/Information System:**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.  
HAZARDOUS AIR POLLUTANT MAJOR

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1000152637  
Registry ID: 110012429167  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110012429167>  
Name: CLEANING CIRCUS  
Address: 3213 MARYSVILLE BOULEVARD  
City,State,Zip: SACRAMENTO, CA 95815

**Sacramento Co. ML:**

Name: CLEANING CIRCUS  
Address: 3213 MARYSVILLE BLVD  
City,State,Zip: SACRAMENTO, CA 95815  
Facility Id: Not reported  
Facility Status: Not reported  
FD: Not reported  
Billing Codes BP: |  
Billing Codes UST: Not reported  
WG Bill Code: |  
Target Property Bill Cod: Not reported  
Food Bill Code: Not reported  
CUPA Permit Date: Not reported  
HAZMAT Permit Date: Not reported  
HAZMAT Inspection Date: Not reported  
Hazmat Date BP Received: Not reported  
UST Permit Dt: Not reported  
UST Inspection Date: Not reported  
UST Tank Test Date: Not reported  
Number of Tanks: Not reported  
UST Tank Test Date: Not reported  
SIC Code: Not reported  
Tier Permitting: Not reported  
AST Bill Code: Not reported  
CALARP Bill Code: Not reported

**CERS:**

Name: CLEANING CIRCUS  
Address: 3213 MARYSVILLE BOULEVARD  
City,State,Zip: SACRAMENTO, CA 95815-1410  
Site ID: 461184  
CERS ID: 110012429167

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CLEANING CIRCUS (Continued)**

**1000152637**

CERS Description: US EPA Air Emission Inventory System (EIS)

HWTS:

Name: CLEANING CIRCUS  
Address: 3213 MARYSVILLE BLVD  
Address 2: Not reported  
City,State,Zip: SACRAMENTO, CA 95815  
EPA ID: CAD982011637  
Inactive Date: 06/30/2003  
Create Date: 03/01/1988  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 3171 DOROTEO WAY  
Mailing Address 2: Not reported  
Mailing City,State,Zip: SACRAMENTO, CA 958330000  
Owner Name: SUKY WATKINS  
Owner Address: 3213 MARYSVILLE BLVD  
Owner Address 2: Not reported  
Owner City,State,Zip: SACRAMENTO, CA  
Contact Name: SUKY WATKINS (OWNER)  
Contact Address: 3213 MARYSVILLE BLVD  
Contact Address 2: Not reported  
City,State,Zip: SACRAMENTO, CA 958150000  
Facility Status: Inactive  
Facility Type: PERMANENT  
Category: STATE  
Latitude: 38.625705  
Longitude: -121.43292

Name: CLEANING CIRCUS  
Address: 3213 MARYSVILLE BLVD  
Address 2: Not reported  
City,State,Zip: SACRAMENTO, CA 95815  
EPA ID: CAC002567649  
Inactive Date: 01/12/2004  
Create Date: 07/15/2003  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 3213 MARYSVILLE BLVD  
Mailing Address 2: Not reported  
Mailing City,State,Zip: SACRAMENTO, CA 95815  
Owner Name: ALVIN THAO  
Owner Address: 3213 MARYSVILLE BLVD  
Owner Address 2: Not reported  
Owner City,State,Zip: SACRAMENTO, CA 95815  
Contact Name: ALVIN THAO  
Contact Address: 3213 MARYSVILLE BLVD  
Contact Address 2: Not reported  
City,State,Zip: SACRAMENTO, CA 95815  
Facility Status: Inactive  
Facility Type: TEMPORARY  
Category: STATE  
Latitude: 38.625837  
Longitude: -121.433022

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

35  
NNW  
1/2-1  
0.733 mi.  
3870 ft.

**DEL PASO HEIGHTS ES ORG - PORTABLE REPLACEMENT BUI**  
**590 MOREY AVENUE**  
**SACRAMENTO, CA 95838**

**ENVIROSTOR**  
**SCH**  
**CIWQS**

**S103665850**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**42 ft.**

**ENVIROSTOR:**

Name: DEL PASO HEIGHTS ES ORG - PORTABLE REPLACEMENT BUILDING  
Address: 590 MOREY AVENUE  
City,State,Zip: SACRAMENTO, CA 95838  
Facility ID: 60001467  
Status: Inactive - Needs Evaluation  
Status Date: 08/03/2011  
Site Code: 104695  
Site Type: School Investigation  
Site Type Detailed: School  
Acres: 4.38  
NPL: NO  
Regulatory Agencies: SMBRP  
Lead Agency: SMBRP  
Program Manager: Mary Gaspari  
Supervisor: Juan Koponen  
Division Branch: Northern California Schools & Santa Susana  
Assembly: 07  
Senate: 06  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: School District  
Latitude: 38.63436  
Longitude: -121.4531  
APN: 250-0101-010, 250-0101-011  
Past Use: SCHOOL - ELEMENTARY  
Potential COC: Under Investigation Chlordane DDD DDE DDT Endrin Lead  
Polychlorinated biphenyls (PCBs)  
Confirmed COC: 30004-NO 30013-NO 30006-NO 30007-NO 30008-NO 30010-NO 30018-NO Under  
Investigation  
Potential Description: SOIL, UE  
Alias Name: 250-0101-010  
Alias Type: APN  
Alias Name: 250-0101-011  
Alias Type: APN  
Alias Name: 104695  
Alias Type: Project Code (Site Code)  
Alias Name: 60001467  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Cost Recovery Closeout Memo  
Completed Date: 08/05/2011  
Comments: DTSC sent a CRU to accounting to finalize and summarize costs for the  
project

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DEL PASO HEIGHTS ES ORG - PORTABLE REPLACEMENT BUILDING (Continued)**

**S103665850**

Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

SCH:

Name: DEL PASO HEIGHTS ES ORG - PORTABLE REPLACEMENT BUILDING  
Address: 590 MOREY AVENUE  
City,State,Zip: SACRAMENTO, CA 95838  
Facility ID: 60001467  
Site Type: School Investigation  
Site Type Detail: School  
Site Mgmt. Req.: NONE SPECIFIED  
Acres: 4.38  
National Priorities List: NO  
Cleanup Oversight Agencies: SMBRP  
Lead Agency: SMBRP  
Lead Agency Description: DTSC - Site Cleanup Program  
Project Manager: Mary Gaspari  
Supervisor: Juan Koponen  
Division Branch: Northern California Schools & Santa Susana  
Site Code: 104695  
Assembly: 07  
Senate: 06  
Special Program Status: Not reported  
Status: Inactive - Needs Evaluation  
Status Date: 08/03/2011  
Restricted Use: NO  
Funding: School District  
Latitude: 38.63436  
Longitude: -121.4531  
APN: 250-0101-010, 250-0101-011  
Past Use: SCHOOL - ELEMENTARY  
Potential COC: Under Investigation, Chlordane, DDD, DDE, DDT, Endrin, Lead, Polychlorinated biphenyls (PCBs)  
Confirmed COC: 30004-NO, 30013-NO, 30006-NO, 30007-NO, 30008-NO, 30010-NO, 30018-NO, Under Investigation  
Potential Description: SOIL, UE  
Alias Name: 250-0101-010  
Alias Type: APN  
Alias Name: 250-0101-011  
Alias Type: APN  
Alias Name: 104695  
Alias Type: Project Code (Site Code)  
Alias Name: 60001467  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Cost Recovery Closeout Memo  
Completed Date: 08/05/2011  
Comments: DTSC sent a CRU to accounting to finalize and summarize costs for the project

Future Area Name: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DEL PASO HEIGHTS ES ORG - PORTABLE REPLACEMENT BUILDING (Continued)**

**S103665850**

Future Sub Area Name: Not reported  
 Future Document Type: Not reported  
 Future Due Date: Not reported  
 Schedule Area Name: Not reported  
 Schedule Sub Area Name: Not reported  
 Schedule Document Type: Not reported  
 Schedule Due Date: Not reported  
 Schedule Revised Date: Not reported

**CIWQS:**

Name: DEL PASO HEIGHTS ELEMENTARY SCHOOL  
 Address: 590 MOREY AVENUE  
 City,State,Zip: DEL PASO HEIGHTS, CA 95838  
 Agency: Twin Rivers Unified School District  
 Agency Address: 3222 Winona Way Suite 201, North Highlands, CA 95660  
 Place/Project Type: Construction - Other: School Improvement Project  
 SIC/NAICS: Not reported  
 Region: 5S  
 Program: CONSTW  
 Regulatory Measure Status: Terminated  
 Regulatory Measure Type: Storm water construction  
 Order Number: 2009-0009-DWQ  
 WDID: 5S34C361421  
 NPDES Number: CAS000002  
 Adoption Date: Not reported  
 Effective Date: 07/12/2011  
 Termination Date: 10/25/2012  
 Expiration/Review Date: Not reported  
 Design Flow: Not reported  
 Major/Minor: Not reported  
 Complexity: Not reported  
 TTWQ: Not reported  
 Enforcement Actions within 5 years: 0  
 Violations within 5 years: 0  
 Latitude: 38.63458  
 Longitude: -121.45284

**36**  
**SE**  
**1/2-1**  
**0.902 mi.**  
**4760 ft.**

**7UP BOTTLING FACILITY**  
**2670 LAND AVE**  
**SACRAMENTO, CA 95815**

**Relative:**  
**Higher**

**Actual:**  
**41 ft.**

**ENVIROSTOR** **S104539508**  
**SWF/LF** **N/A**  
**LUST**  
**CPS-SLIC**  
**VCP**  
**DEED**  
**HAZNET**  
**CERS**  
**HWTS**

**ENVIROSTOR:**

Name: 7UP BOTTLING FACILITY  
 Address: 2670 LAND AVE  
 City,State,Zip: SACRAMENTO, CA 95815  
 Facility ID: 60000509  
 Status: Certified O&M - Land Use Restrictions Only  
 Status Date: 09/09/2010  
 Site Code: 101798  
 Site Type: Voluntary Cleanup  
 Site Type Detailed: Voluntary Agreement

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**7UP BOTTLING FACILITY (Continued)**

**S104539508**

Acres: 13  
NPL: NO  
Regulatory Agencies: SMBRP, SACRAMENTO COUNTY  
Lead Agency: SMBRP  
Program Manager: Kenneth Gath  
Supervisor: Fernando Amador  
Division Branch: Cleanup Sacramento  
Assembly: 07  
Senate: 06  
Special Program: Voluntary Agreement - Standard Voluntary Agreement  
Restricted Use: YES  
Site Mgmt Req: NONE SPECIFIED  
Funding: Responsible Party  
Latitude: 38.61591  
Longitude: -121.4334  
APN: 26502800440000  
Past Use: ILLEGAL DUMPING  
Potential COC: Chlordane Lead TPH-diesel  
Confirmed COC: TPH-diesel Chlordane Lead  
Potential Description: SOIL  
Alias Name: 26502800440000  
Alias Type: APN  
Alias Name: 110013983403  
Alias Type: EPA (FRS #)  
Alias Name: 110033612981  
Alias Type: EPA (FRS #)  
Alias Name: T0606793623  
Alias Type: GeoTracker Global ID  
Alias Name: 101798  
Alias Type: Project Code (Site Code)  
Alias Name: 60000509  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: CEQA - Notice of Exemption  
Completed Date: 09/08/2009  
Comments: CEQA was public Noticed along with RAW. Sent to Gunther to process.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction  
Completed Date: 04/26/2010  
Comments: LUC limiting activities to commercial/industrial recorded 4/27/2010.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Standard Voluntary Agreement  
Completed Date: 11/30/2006  
Comments: VCA completed on 30 november 2006

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 11/06/2009  
Comments: Fieldwork Completed.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**7UP BOTTLING FACILITY (Continued)**

**S104539508**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Workplan  
Completed Date: 01/06/2009  
Comments: Report summarizing results of hot spot delineation

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation / Feasibility Study  
Completed Date: 07/06/2009  
Comments: RAW is draft final and going out for public comment

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction Monitoring Report  
Completed Date: 03/04/2016  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction Monitoring Report  
Completed Date: 03/03/2017  
Comments: Inspection received, sent out acceptance letter

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction Monitoring Report  
Completed Date: 08/15/2018  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction Monitoring Report  
Completed Date: 02/03/2020  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: 5 Year Review Reports  
Completed Date: 01/20/2021  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Workplan  
Completed Date: 08/12/2008  
Comments: Document accepted.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Risk Assessment Report  
Completed Date: 09/09/2008  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**7UP BOTTLING FACILITY (Continued)**

**S104539508**

Completed Date: 03/06/2014  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: 5 Year Review Reports  
Completed Date: 04/14/2015  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Land Use Restriction Monitoring Report  
Completed Date: 02/20/2013  
Comments: Completed

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Endangerment Assessment Report  
Completed Date: 02/20/2007  
Comments: A further action determination letter and VCA Amendment was sent out on 20 February, 2007. Review included all reports concerning the previous investigation and removal of illegal landfill.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Workplan  
Completed Date: 07/08/2009  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Completion Report  
Completed Date: 03/10/2010  
Comments: All required remedial actions have been completed at the site. Activities included excavation and transport of contaminated soil to an approved landfill. Confirmation samples of the excavation walls were taken and analyzed. After confirmation showed that cleanup levels had been met, the excavation were backfilled with clean fill, graded, compacted and covered with asphalt for a parking lot.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Cost Recovery Closeout Memo  
Completed Date: 05/12/2010  
Comments: Memo sent to Billing

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Land Use Restriction Monitoring Report  
Completed Date: 03/14/2011  
Comments: Received 2011 Inspection Report

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: 05/03/2010  
Comments: 7UP Certified

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**7UP BOTTLING FACILITY (Continued)**

**S104539508**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Land Use Restriction Monitoring Report  
Completed Date: 02/21/2012  
Comments: Not reported

Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: 5 Year Review Reports  
Future Due Date: 2025  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**SWF/LF (SWIS):**

Name: DEL PASO DUMP (TAYLOR)  
Address: 2670 LAND AVENUE  
City,State,Zip: DEL PASO HEIGHTS (IN SACRAMENTO), CA 95815  
Region: STATE  
Facility ID: 34-CR-5016  
SWIS Number: 34-CR-5016  
Point of Contact: Dawn Liang  
Is Archived: Yes  
Is Closed Illegal Abandoned: Yes  
Is Site Inert Debris Engineered Fill: No  
Is Financial Assurances Responsible: No  
Absorbed On: Not reported  
Operational Status: Closed  
Absorbed By: Not reported  
Closed Illegal Abandoned Category: C1  
EPA Federal Registry ID: Not reported  
ARB District: Sacramento Metro  
SWRCB Region: Central Valley  
Local Government: Sacramento County (Unincorporated)  
Reporting Agency Legal Name: County of Sacramento  
Reporting Agency Department: Environmental Management Department, Environmental Compliance Division  
Enforcing Agency Legal Name: County of Sacramento  
Enforcing Agency Department: Environmental Management Department, Environmental Compliance Division  
Regulation Status: Pre-regulation

**Owner:**

SWIS Number: 34-CR-5016  
Owner: Tonkin Corporation  
Owner Address: 2670 Land Ave  
Owner City: Sacramento  
Owner State: CA  
Owner Zip: 95815  
Site Name: Del Paso Dump (Taylor)  
Site Operational Status: Closed  
Site Type: Disposal Only  
Site Regulatory Status: Pre-regulation  
Latitude: 38.6165  
Longitude: -121.43333  
Is Archived: Yes  
Started On: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**7UP BOTTLING FACILITY (Continued)**

**S104539508**

Contact Name: Not reported  
Contact Title: Not reported  
Contact Email: Not reported  
Contact Phone: (916) 929-7777

**LUST REG 5:**

Name: 7- UP BOTTLING COMPANY  
Address: 2670 LAND AVE  
City: SACRAMENTO  
Region: 5  
Status: Leak being confirmed  
Case Number: 341313  
Case Type: Soil only  
Substance: DIESEL  
Staff Initials: VJF  
Lead Agency: LJC  
Program: LOCNL  
MTBE Code: N/A

**CPS-SLIC:**

Name: 7- UP BOTTLING COMPANY  
Address: 2670 LAND AVE  
City,State,Zip: SACRAMENTO, CA 95815  
Region: STATE  
**Facility Status: Completed - Case Closed**  
Status Date: 05/17/2010  
Global Id: T0606793623  
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL  
Lead Agency Case Number: F515  
Latitude: 38.616022  
Longitude: -121.434388  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL  
RB Case Number: 341313  
File Location: Local Agency  
Potential Media Affected: Soil  
Potential Contaminants of Concern: Diesel  
Site History: DTSC Lead site. See case information presented in Envirostor for more information. <http://www.envirostor.dtsc.ca.gov> The site has historically been used as a brick manufacturing facility and for pesticide production. A illegal landfill was discovered on the property and was partially remediated. Currently, the site is being used as a bottling facility for 7UP.

Click here to access the California GeoTracker records for this facility:

**VCP:**

Name: 7UP BOTTLING FACILITY  
Address: 2670 LAND AVE  
City,State,Zip: SACRAMENTO, CA 95815  
Facility ID: 60000509  
Site Type: Voluntary Cleanup  
Site Type Detail: Voluntary Agreement  
Site Mgmt. Req.: NONE SPECIFIED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**7UP BOTTLING FACILITY (Continued)**

**S104539508**

Acres: 13  
National Priorities List: NO  
Cleanup Oversight Agencies: SMBRP, SACRAMENTO COUNTY  
Lead Agency: SMBRP  
Lead Agency Description: DTSC - Site Cleanup Program  
Project Manager: Kenneth Gath  
Supervisor: Fernando Amador  
Division Branch: Cleanup Sacramento  
Site Code: 101798  
Assembly: 07  
Senate: 06  
Special Programs Code: Voluntary Agreement - Standard Voluntary Agreement  
Status: Certified O&M - Land Use Restrictions Only  
Status Date: 09/09/2010  
Restricted Use: YES  
Funding: Responsible Party  
Lat/Long: 38.61591 / -121.4334  
APN: 26502800440000  
Past Use: ILLEGAL DUMPING  
Potential COC: 30004, 30013, 30024  
Confirmed COC: 30024,30004,30013  
Potential Description: SOIL  
Alias Name: 26502800440000  
Alias Type: APN  
Alias Name: 110013983403  
Alias Type: EPA (FRS #)  
Alias Name: 110033612981  
Alias Type: EPA (FRS #)  
Alias Name: T0606793623  
Alias Type: GeoTracker Global ID  
Alias Name: 101798  
Alias Type: Project Code (Site Code)  
Alias Name: 60000509  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: CEQA - Notice of Exemption  
Completed Date: 09/08/2009  
Comments: CEQA was public Noticed along with RAW. Sent to Gunther to process.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction  
Completed Date: 04/26/2010  
Comments: LUC limiting activities to commercial/industrial recorded 4/27/2010.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Standard Voluntary Agreement  
Completed Date: 11/30/2006  
Comments: VCA completed on 30 november 2006

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fieldwork  
Completed Date: 11/06/2009

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**7UP BOTTLING FACILITY (Continued)**

**S104539508**

Comments: Fieldwork Completed.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Characterization Workplan  
Completed Date: 01/06/2009  
Comments: Report summarizing results of hot spot delineation

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Remedial Investigation / Feasibility Study  
Completed Date: 07/06/2009  
Comments: RAW is draft final and going out for public comment

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction Monitoring Report  
Completed Date: 03/04/2016  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction Monitoring Report  
Completed Date: 03/03/2017  
Comments: Inspection received, sent out acceptance letter

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction Monitoring Report  
Completed Date: 08/15/2018  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Land Use Restriction Monitoring Report  
Completed Date: 02/03/2020  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: 5 Year Review Reports  
Completed Date: 01/20/2021  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Technical Workplan  
Completed Date: 08/12/2008  
Comments: Document accepted.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Risk Assessment Report  
Completed Date: 09/09/2008  
Comments: Not reported

Completed Area Name: PROJECT WIDE

Map ID  
Direction  
Distance  
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MAP FINDINGS

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**7UP BOTTLING FACILITY (Continued)**

**S104539508**

Completed Sub Area Name: Not reported  
Completed Document Type: Monitoring Report  
Completed Date: 03/06/2014  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: 5 Year Review Reports  
Completed Date: 04/14/2015  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Land Use Restriction Monitoring Report  
Completed Date: 02/20/2013  
Comments: Completed

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Endangerment Assessment Report  
Completed Date: 02/20/2007  
Comments: A further action determination letter and VCA Amendment was sent out on 20 February, 2007. Review included all reports concerning the previous investigation and removal of illegal landfill.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Workplan  
Completed Date: 07/08/2009  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Completion Report  
Completed Date: 03/10/2010  
Comments: All required remedial actions have been completed at the site. Activities included excavation and transport of contaminated soil to an approved landfill. Confirmation samples of the excavation walls were taken and analyzed. After confirmation showed that cleanup levels had been met, the excavation were backfilled with clean fill, graded, compacted and covered with asphalt for a parking lot.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Cost Recovery Closeout Memo  
Completed Date: 05/12/2010  
Comments: Memo sent to Billing

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Land Use Restriction Monitoring Report  
Completed Date: 03/14/2011  
Comments: Received 2011 Inspection Report

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification

Map ID  
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MAP FINDINGS

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**7UP BOTTLING FACILITY (Continued)**

**S104539508**

Completed Date: 05/03/2010  
Comments: 7UP Certified

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Land Use Restriction Monitoring Report  
Completed Date: 02/21/2012  
Comments: Not reported

Future Area Name: PROJECT WIDE  
Future Sub Area Name: Not reported  
Future Document Type: 5 Year Review Reports  
Future Due Date: 2025  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**DEED:**

Name: 7UP BOTTLING FACILITY  
Address: 2670 LAND AVE  
City,State,Zip: SACRAMENTO, CA 95815  
Envirostor ID: 60000509  
Area: PROJECT WIDE  
Sub Area: Not reported  
Site Type: VOLUNTARY CLEANUP  
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY  
Agency: Not reported  
Covenant Uploaded: Not reported  
Deed Date(s): Not reported  
File Name: Envirostor Land Use Restrictions

**HAZNET:**

Name: THE AMERICAN BOTTLING COMPANY  
Address: 2670 LAND AVE  
Address 2: Not reported  
City,State,Zip: SACRAMENTO, CA 95815  
Contact: JASON ESPINOSA  
Telephone: 3235144516  
Mailing Name: Not reported  
Mailing Address: 3220 E 26TH ST

Year: 2021  
Gepaid: CAD982391393  
TSD EPA ID: NVT330010000  
CA Waste Code: 352 - Other organic solids  
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization)  
Tons: 0.0975

Year: 2021  
Gepaid: CAD982391393  
TSD EPA ID: CAL000282598  
CA Waste Code: 223 - Unspecified oil-containing waste  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No

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MAP FINDINGS

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7UP BOTTLING FACILITY (Continued)

S104539508

|                  |   |
|------------------|---|
| Tons:            | Treatment/Reovery (H010-H129) Or (H131-H135)<br>4.4412  |
| Year:            | 2021  |
| Gepaid:          | CAD982391393  |
| TSD EPA ID:      | NVT330010000  |
| CA Waste Code:   | 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L   |
| Disposal Method: | H039 - Other Recovery Of Reclamation For Reuse Including Acid<br>Regeneration, Organics Recovery Ect                          |
| Tons:            | 0.22936   |
| Year:            | 2021  |
| Gepaid:          | CAD982391393  |
| TSD EPA ID:      | AZR000515924  |
| CA Waste Code:   | 223 - Unspecified oil-containing waste  |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No<br>Treatment/Reovery (H010-H129) Or (H131-H135)                         |
| Tons:            | 0.26255   |
| Year:            | 2021  |
| Gepaid:          | CAD982391393  |
| TSD EPA ID:      | AZR000515924  |
| CA Waste Code:   | 223 - Unspecified oil-containing waste  |
| Disposal Method: | H039 - Other Recovery Of Reclamation For Reuse Including Acid<br>Regeneration, Organics Recovery Ect                          |
| Tons:            | 0.1875  |
| Year:            | 2020  |
| Gepaid:          | CAD982391393  |
| TSD EPA ID:      | CAD044429835  |
| CA Waste Code:   | 223 - Unspecified oil-containing waste  |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No<br>Treatment/Reovery (H010-H129) Or (H131-H135)                         |
| Tons:            | 0.33361   |
| Year:            | 2020  |
| Gepaid:          | CAD982391393  |
| TSD EPA ID:      | AZR000515924  |
| CA Waste Code:   | 223 - Unspecified oil-containing waste  |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No<br>Treatment/Reovery (H010-H129) Or (H131-H135)                         |
| Tons:            | 0.2275  |
| Year:            | 2020  |
| Gepaid:          | CAD982391393  |
| TSD EPA ID:      | NVT330010000  |
| CA Waste Code:   | 791 - Liquids with pH <= 2  |
| Disposal Method: | H039 - Other Recovery Of Reclamation For Reuse Including Acid<br>Regeneration, Organics Recovery Ect                          |
| Tons:            | 1.16743   |
| Year:            | 2020  |
| Gepaid:          | CAD982391393  |
| TSD EPA ID:      | NVT330010000  |
| CA Waste Code:   | 223 - Unspecified oil-containing waste  |
| Disposal Method: | H132 - Landfill Or Surface Impoundment That Will Be Closed As<br>Landfill( To Include On-Site Treatment And/Or Stabilization) |

Map ID  
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Distance  
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MAP FINDINGS

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**7UP BOTTLING FACILITY (Continued)**

**S104539508**

Tons: 0.1875  
  
Year: 2020  
Gepaid: CAD982391393  
TSD EPA ID: CAD044429835  
CA Waste Code: 352 - Other organic solids  
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No  
Treatment/Reovery (H010-H129) Or (H131-H135)  
  
Tons: 0.0125

[Click this hyperlink](#) while viewing on your computer to access  
4 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year: 2021  
Gen EPA ID: CAD982391393

Shipment Date: 8/25/2020  
Creation Date: 9/16/2020  
Receipt Date: 9/9/2020  
Manifest ID: 017773566JJK  
Trans EPA ID: CAD028277036  
Trans Name: ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDF EPA ID: CAD097030993  
Trans Name: US ECOLOGY VERNON INC  
TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No  
Treatment/Reovery (H010-H129) Or (H131-H135)  
  
Quantity Tons: 0.1  
Waste Quantity: 200  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 7/8/2020  
Creation Date: 7/27/2020  
Receipt Date: 7/20/2020  
Manifest ID: 017680490JJK  
Trans EPA ID: CAD028277036  
Trans Name: ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDF EPA ID: CAD097030993  
Trans Name: US ECOLOGY VERNON INC  
TSDF Alt EPA ID: Not reported  
TSDF Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported

Map ID  
Direction  
Distance  
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MAP FINDINGS

Site

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**7UP BOTTLING FACILITY (Continued)**

**S104539508**

Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Quantity Tons: 0.15  
Waste Quantity: 300  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 5/5/2020  
Creation Date: 6/9/2020  
Receipt Date: 5/20/2020  
Manifest ID: 017682158JJK  
Trans EPA ID: CAD028277036  
Trans Name: Asbury Environmental Services  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD044429835  
Trans Name: Clean Harbors Wilmington LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 352 - Other organic solids  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.0125  
Waste Quantity: 25  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Shipment Date: 5/5/2020  
Creation Date: 6/9/2020  
Receipt Date: 5/20/2020  
Manifest ID: 017682158JJK  
Trans EPA ID: CAD028277036  
Trans Name: Asbury Environmental Services  
Trans 2 EPA ID: Not reported  
Trans 2 Name: Not reported  
TSDf EPA ID: CAD044429835  
Trans Name: Clean Harbors Wilmington LLC  
TSDf Alt EPA ID: Not reported  
TSDf Alt Name: Not reported  
Waste Code Description: 223 - Unspecified oil-containing waste  
RCRA Code: Not reported  
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

Quantity Tons: 0.33361  
Waste Quantity: 80  
Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported

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MAP FINDINGS

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**7UP BOTTLING FACILITY (Continued)**

**S104539508**

|                         |  |
|-------------------------|--|
| Additional Code 3:      | Not reported   |
| Additional Code 4:      | Not reported   |
| Additional Code 5:      | Not reported   |
| Shipment Date:          | 5/5/2020   |
| Creation Date:          | 5/28/2020  |
| Receipt Date:           | 5/20/2020  |
| Manifest ID:            | 017682160JJK   |
| Trans EPA ID:           | CAD028277036   |
| Trans Name:             | ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES                                  |
| Trans 2 EPA ID:         | Not reported   |
| Trans 2 Name:           | Not reported   |
| TSDF EPA ID:            | CAD097030993   |
| Trans Name:             | US ECOLOGY VERNON INC  |
| TSDF Alt EPA ID:        | Not reported   |
| TSDF Alt Name:          | Not reported   |
| Waste Code Description: | 352 - Other organic solids   |
| RCRA Code:              | Not reported   |
| Meth Code:              | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons:          | 0.15   |
| Waste Quantity:         | 300  |
| Quantity Unit:          | P  |
| Additional Code 1:      | Not reported   |
| Additional Code 2:      | Not reported   |
| Additional Code 3:      | Not reported   |
| Additional Code 4:      | Not reported   |
| Additional Code 5:      | Not reported   |
| Shipment Date:          | 5/5/2020   |
| Creation Date:          | 6/4/2020   |
| Receipt Date:           | 5/15/2020  |
| Manifest ID:            | 017682161JJK   |
| Trans EPA ID:           | CAD028277036   |
| Trans Name:             | ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES                                  |
| Trans 2 EPA ID:         | Not reported   |
| Trans 2 Name:           | Not reported   |
| TSDF EPA ID:            | CAD008252405   |
| Trans Name:             | PACIFIC RESOURCE RECOVERY SERVICES INC   |
| TSDF Alt EPA ID:        | Not reported   |
| TSDF Alt Name:          | Not reported   |
| Waste Code Description: | 343 - Unspecified organic liquid mixture   |
| RCRA Code:              | D001   |
| Meth Code:              | H061 - Fuel Blending Prior To Energy Recovery At Another Site                                      |
| Quantity Tons:          | 0.0068   |
| Waste Quantity:         | 2  |
| Quantity Unit:          | G  |
| Additional Code 1:      | Not reported   |
| Additional Code 2:      | Not reported   |
| Additional Code 3:      | Not reported   |
| Additional Code 4:      | Not reported   |
| Additional Code 5:      | Not reported   |
| Shipment Date:          | 2/10/2020  |
| Creation Date:          | 3/30/2020  |
| Receipt Date:           | 2/21/2020  |
| Manifest ID:            | 020062535JJK   |

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MAP FINDINGS

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**7UP BOTTLING FACILITY (Continued)**

**S104539508**

|                         |  |
|-------------------------|--|
| Trans EPA ID:           | CAR000171017   |
| Trans Name:             | FREMOUW ENVIRONMENTAL SERVICES INC   |
| Trans 2 EPA ID:         | CAR000175422   |
| Trans 2 Name:           | WORLDWIDE RECOVERY SYSTEM INC  |
| TSDf EPA ID:            | AZR000515924   |
| Trans Name:             | YUMA YES WASTE TRANSFER FACILITY   |
| TSDf Alt EPA ID:        | Not reported   |
| TSDf Alt Name:          | Not reported   |
| Waste Code Description: | 223 - Unspecified oil-containing waste   |
| RCRA Code:              | Not reported   |
| Meth Code:              | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons:          | 0.14   |
| Waste Quantity:         | 280  |
| Quantity Unit:          | P  |
| Additional Code 1:      | Not reported   |
| Additional Code 2:      | Not reported   |
| Additional Code 3:      | Not reported   |
| Additional Code 4:      | Not reported   |
| Additional Code 5:      | Not reported   |
| Shipment Date:          | 11/20/2020   |
| Creation Date:          | 12/9/2020  |
| Receipt Date:           | 12/3/2020  |
| Manifest ID:            | 021764057JJK   |
| Trans EPA ID:           | CAR000171017   |
| Trans Name:             | FREMOUW ENVIRONMENTAL SERVICES INC   |
| Trans 2 EPA ID:         | CAR000175422   |
| Trans 2 Name:           | WORLDWIDE RECOVERY SYSTEM INC  |
| TSDf EPA ID:            | NVT330010000   |
| Trans Name:             | US ECOLOGY NEVADA, INC   |
| TSDf Alt EPA ID:        | Not reported   |
| TSDf Alt Name:          | Not reported   |
| Waste Code Description: | 741 - Liquids with halogenated organic compounds > 1000 mg/l                                       |
| RCRA Code:              | Not reported   |
| Meth Code:              | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect  |
| Quantity Tons:          | 0.20851  |
| Waste Quantity:         | 50   |
| Quantity Unit:          | G  |
| Additional Code 1:      | Not reported   |
| Additional Code 2:      | Not reported   |
| Additional Code 3:      | Not reported   |
| Additional Code 4:      | Not reported   |
| Additional Code 5:      | Not reported   |
| Shipment Date:          | 11/20/2020   |
| Creation Date:          | 12/9/2020  |
| Receipt Date:           | 12/3/2020  |
| Manifest ID:            | 021764057JJK   |
| Trans EPA ID:           | CAR000171017   |
| Trans Name:             | FREMOUW ENVIRONMENTAL SERVICES INC   |
| Trans 2 EPA ID:         | CAR000175422   |
| Trans 2 Name:           | WORLDWIDE RECOVERY SYSTEM INC  |
| TSDf EPA ID:            | NVT330010000   |
| Trans Name:             | US ECOLOGY NEVADA, INC   |
| TSDf Alt EPA ID:        | Not reported   |

Map ID  
Direction  
Distance  
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MAP FINDINGS

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**7UP BOTTLING FACILITY (Continued)**

**S104539508**

|                         |  |
|-------------------------|--|
| TSDF Alt Name:          | Not reported   |
| Waste Code Description: | 741 - Liquids with halogenated organic compounds > 1000 mg/l   |
| RCRA Code:              | Not reported   |
| Meth Code:              | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect                          |
| Quantity Tons:          | 0.20851  |
| Waste Quantity:         | 50   |
| Quantity Unit:          | G  |
| Additional Code 1:      | Not reported   |
| Additional Code 2:      | Not reported   |
| Additional Code 3:      | Not reported   |
| Additional Code 4:      | Not reported   |
| Additional Code 5:      | Not reported   |
| Shipment Date:          | 11/20/2020   |
| Creation Date:          | 12/9/2020  |
| Receipt Date:           | 12/3/2020  |
| Manifest ID:            | 021764057JJK   |
| Trans EPA ID:           | CAR000171017   |
| Trans Name:             | FREMOUW ENVIRONMENTAL SERVICES INC   |
| Trans 2 EPA ID:         | CAR000175422   |
| Trans 2 Name:           | WORLDWIDE RECOVERY SYSTEM INC  |
| TSDF EPA ID:            | NVT330010000   |
| Trans Name:             | US ECOLOGY NEVADA, INC   |
| TSDF Alt EPA ID:        | Not reported   |
| TSDF Alt Name:          | Not reported   |
| Waste Code Description: | 223 - Unspecified oil-containing waste   |
| RCRA Code:              | Not reported   |
| Meth Code:              | H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Quantity Tons:          | 0.1875   |
| Waste Quantity:         | 375  |
| Quantity Unit:          | P  |
| Additional Code 1:      | Not reported   |
| Additional Code 2:      | Not reported   |
| Additional Code 3:      | Not reported   |
| Additional Code 4:      | Not reported   |
| Additional Code 5:      | Not reported   |
| Additional Info:        |  |
| Year:                   | 2020   |
| Gen EPA ID:             | CAD982391393   |
| Shipment Date:          | 8/25/2020  |
| Creation Date:          | 9/16/2020  |
| Receipt Date:           | 9/9/2020   |
| Manifest ID:            | 017773566JJK   |
| Trans EPA ID:           | CAD028277036   |
| Trans Name:             | ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES  |
| Trans 2 EPA ID:         | Not reported   |
| Trans 2 Name:           | Not reported   |
| TSDF EPA ID:            | CAD097030993   |
| Trans Name:             | US ECOLOGY VERNON INC  |
| TSDF Alt EPA ID:        | Not reported   |
| TSDF Alt Name:          | Not reported   |
| Waste Code Description: | 352 - Other organic solids   |
| RCRA Code:              | Not reported   |

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**7UP BOTTLING FACILITY (Continued)**

**S104539508**

|                         |  |
|-------------------------|--|
| Meth Code:              | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons:          | 0.1  |
| Waste Quantity:         | 200  |
| Quantity Unit:          | P  |
| Additional Code 1:      | Not reported   |
| Additional Code 2:      | Not reported   |
| Additional Code 3:      | Not reported   |
| Additional Code 4:      | Not reported   |
| Additional Code 5:      | Not reported   |
| Shipment Date:          | 7/8/2020   |
| Creation Date:          | 7/27/2020  |
| Receipt Date:           | 7/20/2020  |
| Manifest ID:            | 017680490JJK   |
| Trans EPA ID:           | CAD028277036   |
| Trans Name:             | ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES                                  |
| Trans 2 EPA ID:         | Not reported   |
| Trans 2 Name:           | Not reported   |
| TSDf EPA ID:            | CAD097030993   |
| Trans Name:             | US ECOLOGY VERNON INC  |
| TSDf Alt EPA ID:        | Not reported   |
| TSDf Alt Name:          | Not reported   |
| Waste Code Description: | 352 - Other organic solids   |
| RCRA Code:              | Not reported   |
| Meth Code:              | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons:          | 0.15   |
| Waste Quantity:         | 300  |
| Quantity Unit:          | P  |
| Additional Code 1:      | Not reported   |
| Additional Code 2:      | Not reported   |
| Additional Code 3:      | Not reported   |
| Additional Code 4:      | Not reported   |
| Additional Code 5:      | Not reported   |
| Shipment Date:          | 5/5/2020   |
| Creation Date:          | 5/28/2020  |
| Receipt Date:           | 5/20/2020  |
| Manifest ID:            | 017682160JJK   |
| Trans EPA ID:           | CAD028277036   |
| Trans Name:             | ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES                                  |
| Trans 2 EPA ID:         | Not reported   |
| Trans 2 Name:           | Not reported   |
| TSDf EPA ID:            | CAD097030993   |
| Trans Name:             | US ECOLOGY VERNON INC  |
| TSDf Alt EPA ID:        | Not reported   |
| TSDf Alt Name:          | Not reported   |
| Waste Code Description: | 352 - Other organic solids   |
| RCRA Code:              | Not reported   |
| Meth Code:              | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons:          | 0.15   |
| Waste Quantity:         | 300  |
| Quantity Unit:          | P  |
| Additional Code 1:      | Not reported   |
| Additional Code 2:      | Not reported   |

Map ID  
Direction  
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MAP FINDINGS

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**7UP BOTTLING FACILITY (Continued)**

**S104539508**

|                         |  |
|-------------------------|--|
| Additional Code 3:      | Not reported   |
| Additional Code 4:      | Not reported   |
| Additional Code 5:      | Not reported   |
| Shipment Date:          | 5/5/2020   |
| Creation Date:          | 6/9/2020   |
| Receipt Date:           | 5/20/2020  |
| Manifest ID:            | 017682158JJK   |
| Trans EPA ID:           | CAD028277036   |
| Trans Name:             | Asbury Environmental Services  |
| Trans 2 EPA ID:         | Not reported   |
| Trans 2 Name:           | Not reported   |
| TSDf EPA ID:            | CAD044429835   |
| Trans Name:             | Clean Harbors Wilmington LLC   |
| TSDf Alt EPA ID:        | Not reported   |
| TSDf Alt Name:          | Not reported   |
| Waste Code Description: | 223 - Unspecified oil-containing waste   |
| RCRA Code:              | Not reported   |
| Meth Code:              | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons:          | 0.33361  |
| Waste Quantity:         | 80   |
| Quantity Unit:          | G  |
| Additional Code 1:      | Not reported   |
| Additional Code 2:      | Not reported   |
| Additional Code 3:      | Not reported   |
| Additional Code 4:      | Not reported   |
| Additional Code 5:      | Not reported   |
| Shipment Date:          | 5/5/2020   |
| Creation Date:          | 6/9/2020   |
| Receipt Date:           | 5/20/2020  |
| Manifest ID:            | 017682158JJK   |
| Trans EPA ID:           | CAD028277036   |
| Trans Name:             | Asbury Environmental Services  |
| Trans 2 EPA ID:         | Not reported   |
| Trans 2 Name:           | Not reported   |
| TSDf EPA ID:            | CAD044429835   |
| Trans Name:             | Clean Harbors Wilmington LLC   |
| TSDf Alt EPA ID:        | Not reported   |
| TSDf Alt Name:          | Not reported   |
| Waste Code Description: | 352 - Other organic solids   |
| RCRA Code:              | Not reported   |
| Meth Code:              | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons:          | 0.0125   |
| Waste Quantity:         | 25   |
| Quantity Unit:          | P  |
| Additional Code 1:      | Not reported   |
| Additional Code 2:      | Not reported   |
| Additional Code 3:      | Not reported   |
| Additional Code 4:      | Not reported   |
| Additional Code 5:      | Not reported   |
| Shipment Date:          | 5/5/2020   |
| Creation Date:          | 6/4/2020   |
| Receipt Date:           | 5/15/2020  |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**7UP BOTTLING FACILITY (Continued)**

**S104539508**

|                         |  |
|-------------------------|--|
| Manifest ID:            | 017682161JJK   |
| Trans EPA ID:           | CAD028277036   |
| Trans Name:             | ASBURY ENVIRONMENTAL SERVICES DBA WORLD OIL ENVIROMENTAL SERVICES                                  |
| Trans 2 EPA ID:         | Not reported   |
| Trans 2 Name:           | Not reported   |
| TSDF EPA ID:            | CAD008252405   |
| Trans Name:             | PACIFIC RESOURCE RECOVERY SERVICES INC   |
| TSDF Alt EPA ID:        | Not reported   |
| TSDF Alt Name:          | Not reported   |
| Waste Code Description: | 343 - Unspecified organic liquid mixture   |
| RCRA Code:              | D001   |
| Meth Code:              | H061 - Fuel Blending Prior To Energy Recovery At Another Site                                      |
| Quantity Tons:          | 0.0068   |
| Waste Quantity:         | 2  |
| Quantity Unit:          | G  |
| Additional Code 1:      | Not reported   |
| Additional Code 2:      | Not reported   |
| Additional Code 3:      | Not reported   |
| Additional Code 4:      | Not reported   |
| Additional Code 5:      | Not reported   |
| Shipment Date:          | 2/10/2020  |
| Creation Date:          | 3/30/2020  |
| Receipt Date:           | 2/21/2020  |
| Manifest ID:            | 020062535JJK   |
| Trans EPA ID:           | CAR000171017   |
| Trans Name:             | FREMOUW ENVIRONMENTAL SERVICES INC   |
| Trans 2 EPA ID:         | CAR000175422   |
| Trans 2 Name:           | WORLDWIDE RECOVERY SYSTEM INC  |
| TSDF EPA ID:            | AZR000515924   |
| Trans Name:             | YUMA YES WASTE TRANSFER FACILITY   |
| TSDF Alt EPA ID:        | Not reported   |
| TSDF Alt Name:          | Not reported   |
| Waste Code Description: | 223 - Unspecified oil-containing waste   |
| RCRA Code:              | Not reported   |
| Meth Code:              | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons:          | 0.14   |
| Waste Quantity:         | 280  |
| Quantity Unit:          | P  |
| Additional Code 1:      | Not reported   |
| Additional Code 2:      | Not reported   |
| Additional Code 3:      | Not reported   |
| Additional Code 4:      | Not reported   |
| Additional Code 5:      | Not reported   |
| Shipment Date:          | 11/20/2020   |
| Creation Date:          | 1/15/2021  |
| Receipt Date:           | 12/3/2020  |
| Manifest ID:            | 021764060JJK   |
| Trans EPA ID:           | CAR000171017   |
| Trans Name:             | FREMOUW ENVIRONMENTAL SERVICES INC   |
| Trans 2 EPA ID:         | CAR000175422   |
| Trans 2 Name:           | WORLDWIDE RECOVERY SYSTEM INC  |
| TSDF EPA ID:            | NVT330010000   |
| Trans Name:             | US ECOLOGY NEVADA, INC   |
| TSDF Alt EPA ID:        | Not reported   |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**7UP BOTTLING FACILITY (Continued)**

**S104539508**

|                         |   |
|-------------------------|---|
| TSDf Alt Name:          | Not reported  |
| Waste Code Description: | 791,792 - Not reported  |
| RCRA Code:              | D002  |
| Meth Code:              | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons:          | 0.1625  |
| Waste Quantity:         | 325   |
| Quantity Unit:          | P   |
| Additional Code 1:      | Not reported  |
| Additional Code 2:      | Not reported  |
| Additional Code 3:      | Not reported  |
| Additional Code 4:      | Not reported  |
| Additional Code 5:      | Not reported  |
| Shipment Date:          | 11/20/2020  |
| Creation Date:          | 12/9/2020   |
| Receipt Date:           | 12/3/2020   |
| Manifest ID:            | 021764057JJK  |
| Trans EPA ID:           | CAR000171017  |
| Trans Name:             | FREMOUW ENVIRONMENTAL SERVICES INC  |
| Trans 2 EPA ID:         | CAR000175422  |
| Trans 2 Name:           | WORLDWIDE RECOVERY SYSTEM INC   |
| TSDf EPA ID:            | NVT330010000  |
| Trans Name:             | US ECOLOGY NEVADA, INC  |
| TSDf Alt EPA ID:        | Not reported  |
| TSDf Alt Name:          | Not reported  |
| Waste Code Description: | 741 - Liquids with halogenated organic compounds > 1000 mg/l                                      |
| RCRA Code:              | Not reported  |
| Meth Code:              | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons:          | 0.20851   |
| Waste Quantity:         | 50  |
| Quantity Unit:          | G   |
| Additional Code 1:      | Not reported  |
| Additional Code 2:      | Not reported  |
| Additional Code 3:      | Not reported  |
| Additional Code 4:      | Not reported  |
| Additional Code 5:      | Not reported  |
| Shipment Date:          | 11/20/2020  |
| Creation Date:          | 12/9/2020   |
| Receipt Date:           | 12/3/2020   |
| Manifest ID:            | 021764057JJK  |
| Trans EPA ID:           | CAR000171017  |
| Trans Name:             | FREMOUW ENVIRONMENTAL SERVICES INC  |
| Trans 2 EPA ID:         | CAR000175422  |
| Trans 2 Name:           | WORLDWIDE RECOVERY SYSTEM INC   |
| TSDf EPA ID:            | NVT330010000  |
| Trans Name:             | US ECOLOGY NEVADA, INC  |
| TSDf Alt EPA ID:        | Not reported  |
| TSDf Alt Name:          | Not reported  |
| Waste Code Description: | 741 - Liquids with halogenated organic compounds > 1000 mg/l                                      |
| RCRA Code:              | Not reported  |
| Meth Code:              | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons:          | 0.20851   |
| Waste Quantity:         | 50  |

Map ID  
Direction  
Distance  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
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**7UP BOTTLING FACILITY (Continued)**

**S104539508**

Quantity Unit: G  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

Detail Two:

Year: 2020  
EM Manifest ID: 1137179  
Shipment Date: 2/10/2020  
Receipt Date: 2/21/2020  
Manifest Number: 020062535JJK  
Generator EPA ID: CAD982391393  
Name: THE AMERICAN BOTTLING COMPANY  
Address: 2670 LAND AVE.  
Address 2: Not reported  
City: SACRAMENTO  
Zip: 95815  
Telephone: 800-424-9300  
Contact: Not reported  
Contact Telephone: 916-929-7777  
Transporter 1 EPA ID: CAR000171017  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: CAR000175422  
Transporter 2 Emergency Number: Not reported  
TSDf EPA ID: AZR000515924  
TSDf Name: YUMA YES WASTE TRANSFER FACILITY  
TSDf Address 1: 2730 E 13TH ST  
TSDf Address 2: Not reported  
TSDf City: YUMA  
TSDf Zip: 85365-1901  
TSDf Telephone: Not reported

State:

Year: 2020  
EM Manifest ID: 1137179  
Generator EPA ID: CAD982391393  
Shipment Date: 2020-02-10  
Manifest Number: 020062535JJK  
Line Number: 1  
Method Code: H141  
Quantity Tons: 0.14000  
Quantity Waste: 280.000000  
Quantity Unit: P  
Number of Containers: 2  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Pounds  
State Code: 223

Year: 2020  
EM Manifest ID: 963ca588-3a1c-430f-94ff-a1d19219224f  
Shipment Date: 11/20/2020  
Receipt Date: 12/3/2020  
Manifest Number: 021764057JJK  
Generator EPA ID: CAD982391393

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**7UP BOTTLING FACILITY (Continued)**

**S104539508**

Name: THE AMERICAN BOTTLING COMPANY  
Address: LAND AVE.  
Address 2: Not reported  
City: SACRAMENTO  
Zip: 95815  
Telephone: 800-424-9300  
Contact: Not reported  
Contact Telephone: 800-424-9300  
Transporter 1 EPA ID: CAR000171017  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: CAR000175422  
Transporter 2 Emergency Number: Not reported  
TSDF EPA ID: NVT330010000  
TSDF Name: US ECOLOGY NEVADA, INC  
TSDF Address 1: HWY 95 11 MI S OF BEATTY  
TSDF Address 2: Not reported  
TSDF City: BEATTY  
TSDF Zip: 89003  
TSDF Telephone: 800-839-3975

State:

Year: 2020  
EM Manifest ID: 963ca588-3a1c-430f-94ff-a1d19219224f  
Generator EPA ID: CAD982391393  
Shipment Date: 2020-11-20  
Manifest Number: 021764057JJK  
Line Number: 1  
Method Code: H039  
Quantity Tons: 0.20850  
Quantity Waste: 50.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: Metal drums, barrels, kegs  
Quantity Type: Gallons  
State Code: 741

Year: 2020  
EM Manifest ID: 963ca588-3a1c-430f-94ff-a1d19219224f  
Generator EPA ID: CAD982391393  
Shipment Date: 2020-11-20  
Manifest Number: 021764057JJK  
Line Number: 2  
Method Code: H039  
Quantity Tons: 0.20850  
Quantity Waste: 50.000000  
Quantity Unit: G  
Number of Containers: 1  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Gallons  
State Code: 741

Year: 2020  
EM Manifest ID: 963ca588-3a1c-430f-94ff-a1d19219224f  
Generator EPA ID: CAD982391393  
Shipment Date: 2020-11-20  
Manifest Number: 021764057JJK  
Line Number: 3  
Method Code: H132

Map ID  
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Distance  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**7UP BOTTLING FACILITY (Continued)**

**S104539508**

|                                 |                                      |
|---------------------------------|--------------------------------------|
| Quantity Tons:                  | 0.18750                              |
| Quantity Waste:                 | 375.000000                           |
| Quantity Unit:                  | P                                    |
| Number of Containers:           | 1                                    |
| Type of Container:              | Metal drums, barrels, kegs           |
| Quantity Type:                  | Pounds                               |
| State Code:                     | 223                                  |
| Year:                           | 2020                                 |
| EM Manifest ID:                 | 7b4a4f3f-f0a9-4528-8fed-a4f812b417c8 |
| Shipment Date:                  | 11/13/2020                           |
| Receipt Date:                   | 11/25/2020                           |
| Manifest Number:                | 021764029JJK                         |
| Generator EPA ID:               | CAD982391393                         |
| Name:                           | THE AMERICAN BOTTLING COMPANY        |
| Address:                        | 2670 LAND AVE.                       |
| Address 2:                      | Not reported                         |
| City:                           | SACRAMENTO                           |
| Zip:                            | 95815                                |
| Telephone:                      | 800-424-9300                         |
| Contact:                        | Not reported                         |
| Contact Telephone:              | 916-929-7777                         |
| Transporter 1 EPA ID:           | CAR000171017                         |
| Transporter 1 Emergency Number: | Not reported                         |
| Transporter 2 EPA ID:           | CAR000175422                         |
| Transporter 2 Emergency Number: | Not reported                         |
| TSDf EPA ID:                    | AZR000515924                         |
| TSDf Name:                      | YUMA YES WASTE TRANSFER FACILITY     |
| TSDf Address 1:                 | 2730 E 13TH ST                       |
| TSDf Address 2:                 | Not reported                         |
| TSDf City:                      | YUMA                                 |
| TSDf Zip:                       | 85365                                |
| TSDf Telephone:                 | Not reported                         |
| State:                          |                                      |
| Year:                           | 2020                                 |
| EM Manifest ID:                 | 7b4a4f3f-f0a9-4528-8fed-a4f812b417c8 |
| Generator EPA ID:               | CAD982391393                         |
| Shipment Date:                  | 2020-11-13                           |
| Manifest Number:                | 021764029JJK                         |
| Line Number:                    | 1                                    |
| Method Code:                    | H141                                 |
| Quantity Tons:                  | 0.08750                              |
| Quantity Waste:                 | 175.000000                           |
| Quantity Unit:                  | P                                    |
| Number of Containers:           | 1                                    |
| Type of Container:              | Metal drums, barrels, kegs           |
| Quantity Type:                  | Pounds                               |
| State Code:                     | 223                                  |
| Year:                           | 2020                                 |
| EM Manifest ID:                 | 1c151d6b-2eb6-4724-a3a5-17de00681e4a |
| Shipment Date:                  | 11/10/2020                           |
| Receipt Date:                   | 11/25/2020                           |
| Manifest Number:                | 021762841JJK                         |
| Generator EPA ID:               | CAD982391393                         |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**7UP BOTTLING FACILITY (Continued)**

**S104539508**

Name: THE AMERICAN BOTTLING COMPANY  
Address: LAND AVE.  
Address 2: Not reported  
City: SACRAMENTO  
Zip: 95815  
Telephone: 800-424-9300  
Contact: Not reported  
Contact Telephone: 800-424-9300  
Transporter 1 EPA ID: CAR000171017  
Transporter 1 Emergency Number: Not reported  
Transporter 2 EPA ID: CAR000175422  
Transporter 2 Emergency Number: Not reported  
TSDF EPA ID: NVT330010000  
TSDF Name: US ECOLOGY NEVADA, INC  
TSDF Address 1: HWY 95 11 MI S OF BEATTY  
TSDF Address 2: Not reported  
TSDF City: BEATTY  
TSDF Zip: 89003  
TSDF Telephone: 800-839-3975

Federal:

Year: 2020  
EM Manifest ID: 1c151d6b-2eb6-4724-a3a5-17de00681e4a  
Generator EPA ID: CAD982391393  
Shipment Date: 2020-11-10  
Manifest Number: 021762841JJK  
Line Number: 1  
Method Code: H039  
Quantity Tons: 0.91740  
Quantity Waste: 220.000000  
Quantity Unit: G  
Number of Containers: 4  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Gallons  
Federal Code: D002

Year: 2020  
EM Manifest ID: 1c151d6b-2eb6-4724-a3a5-17de00681e4a  
Generator EPA ID: CAD982391393  
Shipment Date: 2020-11-10  
Manifest Number: 021762841JJK  
Line Number: 2  
Method Code: H039  
Quantity Tons: 0.08750  
Quantity Waste: 175.000000  
Quantity Unit: P  
Number of Containers: 1  
Type of Container: Fiberboard or plastic drums, barrels, kegs  
Quantity Type: Pounds  
Federal Code: D002

State:

Year: 2020  
EM Manifest ID: 1c151d6b-2eb6-4724-a3a5-17de00681e4a  
Generator EPA ID: CAD982391393  
Shipment Date: 2020-11-10  
Manifest Number: 021762841JJK

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**7UP BOTTLING FACILITY (Continued)**

**S104539508**

|                       |  |
|-----------------------|--|
| Line Number:          | 1  |
| Method Code:          | H039                                       |
| Quantity Tons:        | 0.91740                                    |
| Quantity Waste:       | 220.000000                                 |
| Quantity Unit:        | G  |
| Number of Containers: | 4  |
| Type of Container:    | Fiberboard or plastic drums, barrels, kegs |
| Quantity Type:        | Gallons                                    |
| State Code:           | 791  |
| Year:                 | 2020                                       |
| EM Manifest ID:       | 1c151d6b-2eb6-4724-a3a5-17de00681e4a       |
| Generator EPA ID:     | CAD982391393                               |
| Shipment Date:        | 2020-11-10                                 |
| Manifest Number:      | 021762841JJK                               |
| Line Number:          | 1  |
| Method Code:          | H039                                       |
| Quantity Tons:        | 0.91740                                    |
| Quantity Waste:       | 220.000000                                 |
| Quantity Unit:        | G  |
| Number of Containers: | 4  |
| Type of Container:    | Fiberboard or plastic drums, barrels, kegs |
| Quantity Type:        | Gallons                                    |
| State Code:           | 792  |
| Year:                 | 2020                                       |
| EM Manifest ID:       | 1c151d6b-2eb6-4724-a3a5-17de00681e4a       |
| Generator EPA ID:     | CAD982391393                               |
| Shipment Date:        | 2020-11-10                                 |
| Manifest Number:      | 021762841JJK                               |
| Line Number:          | 2  |
| Method Code:          | H039                                       |
| Quantity Tons:        | 0.08750                                    |
| Quantity Waste:       | 175.000000                                 |
| Quantity Unit:        | P  |
| Number of Containers: | 1  |
| Type of Container:    | Fiberboard or plastic drums, barrels, kegs |
| Quantity Type:        | Pounds                                     |
| State Code:           | 791  |
| Year:                 | 2020                                       |
| EM Manifest ID:       | 1c151d6b-2eb6-4724-a3a5-17de00681e4a       |
| Generator EPA ID:     | CAD982391393                               |
| Shipment Date:        | 2020-11-10                                 |
| Manifest Number:      | 021762841JJK                               |
| Line Number:          | 2  |
| Method Code:          | H039                                       |
| Quantity Tons:        | 0.08750                                    |
| Quantity Waste:       | 175.000000                                 |
| Quantity Unit:        | P  |
| Number of Containers: | 1  |
| Type of Container:    | Fiberboard or plastic drums, barrels, kegs |
| Quantity Type:        | Pounds                                     |
| State Code:           | 792  |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**7UP BOTTLING FACILITY (Continued)**

**S104539508**

Additional Info:

|                         |  |
|-------------------------|--|
| Year:                   | 2015   |
| Gen EPA ID:             | CAC002793932   |
| Shipment Date:          | 20150218   |
| Creation Date:          | 6/26/2015 22:16:07   |
| Receipt Date:           | 20150302   |
| Manifest ID:            | 012890780JJK   |
| Trans EPA ID:           | MAD039322250   |
| Trans Name:             | CLEAN HARBORS ENVIRONMENTAL SERVICES INC   |
| Trans 2 EPA ID:         | Not reported   |
| Trans 2 Name:           | Not reported   |
| TSDf EPA ID:            | CAD059494310   |
| Trans Name:             | CLEAN HARBORS OF SAN JOSE  |
| TSDf Alt EPA ID:        | Not reported   |
| TSDf Alt Name:          | Not reported   |
| Waste Code Description: | 135 - Unspecified aqueous solution   |
| RCRA Code:              | Not reported   |
| Meth Code:              | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons:          | 0.273  |
| Waste Quantity:         | 65   |
| Quantity Unit:          | G  |
| Additional Code 1:      | Not reported   |
| Additional Code 2:      | Not reported   |
| Additional Code 3:      | Not reported   |
| Additional Code 4:      | Not reported   |
| Additional Code 5:      | Not reported   |
| Shipment Date:          | 20150218   |
| Creation Date:          | 6/26/2015 22:16:07   |
| Receipt Date:           | 20150302   |
| Manifest ID:            | 012890780JJK   |
| Trans EPA ID:           | MAD039322250   |
| Trans Name:             | CLEAN HARBORS ENVIRONMENTAL SERVICES INC   |
| Trans 2 EPA ID:         | Not reported   |
| Trans 2 Name:           | Not reported   |
| TSDf EPA ID:            | CAD059494310   |
| Trans Name:             | CLEAN HARBORS OF SAN JOSE  |
| TSDf Alt EPA ID:        | Not reported   |
| TSDf Alt Name:          | Not reported   |
| Waste Code Description: | 135 - Unspecified aqueous solution   |
| RCRA Code:              | D002   |
| Meth Code:              | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons:          | 0.021  |
| Waste Quantity:         | 5  |
| Quantity Unit:          | G  |
| Additional Code 1:      | Not reported   |
| Additional Code 2:      | Not reported   |
| Additional Code 3:      | Not reported   |
| Additional Code 4:      | Not reported   |
| Additional Code 5:      | Not reported   |

CERS:

Name: DEL PASO DUMP (TAYLOR)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**7UP BOTTLING FACILITY (Continued)**

**S104539508**

Address: 2670 LAND AVE  
City,State,Zip: SACRAMENTO, CA 95815  
Site ID: 464135  
CERS ID: 110013983403  
CERS Description: US EPA Air Emission Inventory System (EIS)

Name: 7- UP BOTTLING COMPANY  
Address: 2670 LAND AVE  
City,State,Zip: SACRAMENTO, CA 95815  
Site ID: 231517  
CERS ID: T0606793623  
CERS Description: Cleanup Program Site

Affiliation:  
Affiliation Type Desc: Regional Board Caseworker  
Entity Name: zzz - CENTRAL VALLEY RWQCB (REGION 5S)  
Entity Title: Not reported  
Affiliation Address: 11020 SUN CENTER DRIVE #200  
Affiliation City: RANCHO CORDOVA  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

HWTS:  
Name: THE AMERICAN BOTTLING COMPANY  
Address: 2670 LAND AVE  
Address 2: Not reported  
City,State,Zip: SACRAMENTO, CA 95815  
EPA ID: CAD982391393  
Inactive Date: Not reported  
Create Date: 05/20/1991  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: 3220 E 26TH ST  
Mailing Address 2: Not reported  
Mailing City,State,Zip: VERNON, CA 95815  
Owner Name: THE AMERICAN BOTTLING COMPANY  
Owner Address: 3220 E 26TH ST  
Owner Address 2: Not reported  
Owner City,State,Zip: VERNON, CA 95815  
Contact Name: JASON ESPINOSA  
Contact Address: 3220 E 26TH ST.  
Contact Address 2: Not reported  
City,State,Zip: VERNON, CA 90058  
Facility Status: Active  
Facility Type: PERMANENT  
Category: FEDERAL  
Latitude: 38.616144  
Longitude: -121.434571

NAICS:  
EPA ID: CAD982391393  
Create Date: 2005-09-27 15:01:35.000  
NAICS Code: 312111  
NAICS Description: Soft Drink Manufacturing  
Issued EPA ID Date: 1991-05-20 00:00:00

Map ID  
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MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**7UP BOTTLING FACILITY (Continued)**

**S104539508**

Inactive Date: Not reported  
Facility Name: THE AMERICAN BOTTLING COMPANY  
Facility Address: 2670 LAND AVE  
Facility Address 2: Not reported  
Facility City: SACRAMENTO  
Facility County: Not reported  
Facility State: CA  
Facility Zip: 95815

Name: NALCO COMPANY  
Address: 2670 LAND AVE  
Address 2: Not reported  
City,State,Zip: SACRAMENTO, CA 95815  
EPA ID: CAC002793932  
Inactive Date: 02/17/2015  
Create Date: 11/18/2014  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 7495  
Mailing Address 2: Not reported  
Mailing City,State,Zip: BROOMFIELD, CO 800210025  
Owner Name: NALCO COMPANY  
Owner Address: 1601 W DIEHL RD  
Owner Address 2: Not reported  
Owner City,State,Zip: NAPERVILLE, IL 605630130  
Contact Name: DAN MOTISI  
Contact Address: PO BOX 7495  
Contact Address 2: Not reported  
City,State,Zip: BROOMFIELD, CO 800210025  
Facility Status: Inactive  
Facility Type: TEMPORARY  
Category: STATE  
Latitude: 38.616082  
Longitude: -121.434509

**NAICS:**

EPA ID: CAC002793932  
Create Date: 2014-11-18 08:58:11.710  
NAICS Code: 42269  
NAICS Description: Other Chemical and Allied Products Wholesalers  
Issued EPA ID Date: 2014-11-18 08:58:11.73000  
Inactive Date: 2015-02-17 08:58:11.70000  
Facility Name: NALCO COMPANY  
Facility Address: 2670 LAND AVE  
Facility Address 2: Not reported  
Facility City: SACRAMENTO  
Facility County: Not reported  
Facility State: CA  
Facility Zip: 95815

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**E37**            **STRAWBERRY MANOR PCB SITE**  
**West**        **188 OLMSTEAD DR**  
**1/2-1**        **SACRAMENTO, CA 95838**

**HIST Cal-Sites**    **S100184100**  
**N/A**

**0.934 mi.**  
**4929 ft.**        **Site 1 of 2 in cluster E**

**Relative:**  
**Lower**

Calsite:

**Actual:**  
**29 ft.**

Name:                    STRAWBERRY MANOR PCB SITE  
 Address:                188 OLMSTEAD DR  
 City:                     SACRAMENTO  
 Region:                 SACRAMENTO  
 Facility ID:             34330034  
 Facility Type:         RP  
 Type:                    RESPONSIBLE PARTY  
 Branch:                 CC  
 Branch Name:         CENTRAL CALIFORNIA  
 File Name:             Not reported  
 State Senate District: 06011988  
 Status:                 CERTIFIED AS HAVING BEEN REMEDIED SATISFACTORILY UNDER DTSC OVERSIGHT  
 Status Name:         CERTIFIED  
 Lead Agency:         DEPT OF TOXIC SUBSTANCES CONTROL  
 NPL:                     Not Listed  
 SIC Code:              33  
 SIC Name:              MANU - PRIMARY METAL INDUSTRIES  
 Access:                Not reported  
 Cortese:                Not reported  
 Hazardous Ranking Score:    Not reported  
 Date Site Hazard Ranked:    Not reported  
 Groundwater Contamination:    Suspected  
 Staff Member Responsible for Site: TLANDIS  
 Supervisor Responsible for Site:    Not reported  
 Region Water Control Board:    Not reported  
 Region Water Control Board Name: Not reported  
 Lat/Long Direction:            Not reported  
 Lat/Long (dms):                0 0 0 / 0 0 0  
 Lat/long Method:                Not reported  
 Lat/Long Description:         Not reported  
 State Assembly District Code:    09  
 State Senate District Code:    06  
 Facility ID:                34330034  
 Activity:                 CERT  
 Activity Name:            CERTIFICATION  
 AWP Code:                Not reported  
 Proposed Budget:                0  
 AWP Completion Date:            Not reported  
 Revised Due Date:                Not reported  
 Comments Date:                06011988  
 Est Person-Yrs to complete:    0  
 Estimated Size:                Not reported  
 Request to Delete Activity:    Not reported  
 Activity Status:                CERT  
 Definition of Status:            CERTIFIED  
 Liquids Removed (Gals):        0  
 Liquids Treated (Gals):        0  
 Action Included Capping:        Not reported  
 Well Decommissioned:            Not reported  
 Action Included Fencing:        Not reported  
 Removal Action Certification:    Not reported  
 Activity Comments:                Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**STRAWBERRY MANOR PCB SITE (Continued)**

**S100184100**

For Commercial Reuse: 0  
For Industrial Reuse: 0  
For Residential Reuse: 0  
Unknown Type: 0  
Facility ID: 34330034  
Activity: COST  
Activity Name: COST RECOVERY  
AWP Code: 1  
Proposed Budget: 0  
AWP Completion Date: Not reported  
Revised Due Date: Not reported  
Comments Date: 02281991  
Est Person-Yrs to complete: 0  
Estimated Size: Not reported  
Request to Delete Activity: Not reported  
Activity Status: CERT  
Definition of Status: CERTIFIED  
Liquids Removed (Gals): 0  
Liquids Treated (Gals): 0  
Action Included Capping: Not reported  
Well Decommissioned: Not reported  
Action Included Fencing: Not reported  
Removal Action Certification: Not reported  
Activity Comments: Not reported  
For Commercial Reuse: 0  
For Industrial Reuse: 0  
For Residential Reuse: 0  
Unknown Type: 0  
Alternate Address: 188 OLMSTEAD  
Alternate City,St,Zip: SACRAMENTO, CA 95835  
Alternate Address: 188 OLMSTEAD DR  
Alternate City,St,Zip: SACRAMENTO, CA 95838  
Background Info: Not reported  
Comments Date: 12221995  
Comments: Materials began to excavate the contaminated soil and trans-  
Comments Date: 12221995  
Comments: ported 60 cubic yards of soil to a permitted facility. On  
Comments Date: 12221995  
Comments: May 6, 1988 the remediation was completed. The Department of  
Comments Date: 12221995  
Comments: Health Services (now DTSC) certified the site on June 28,  
Comments Date: 12221995  
Comments: 1988, and on July 29, 1988 the final report was approved.  
Comments Date: 12221995  
Comments: Not reported  
Comments Date: 08151989  
Comments: Records Search: Site is listed in 1989 Bond Expenditure  
Comments Date: 08151989  
Comments: Plan for cost recovery only. Cost recovery was expected to  
Comments Date: 08151989  
Comments: be completed in June 1989.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**STRAWBERRY MANOR PCB SITE (Continued)**

**S100184100**

Comments Date: 08151989  
 Comments: Site certified as remediated in June 1988.  
 Comments Date: 12221995  
 Comments: The operations at the Site at 188 Olmstead recovered copper,  
 Comments Date: 12221995  
 Comments: aluminum, and iron from used ballasts from fluorescent light  
 Comments Date: 12221995  
 Comments: fixtures. Many of the ballasts contained PCBs. The ballasts  
 Comments Date: 12221995  
 Comments: would be burned to recover the metals. The burning of PCBs  
 Comments Date: 12221995  
 Comments: also produced chlorodibenzodioxins (dioxins), and chlorodi-  
 Comments Date: 12221995  
 Comments: benzofurans (furans). Soil and groundwater samples taken at  
 Comments Date: 12221995  
 Comments: the Site indicated concentrations of PCBs at 1,100 ppb, lead  
 Comments Date: 12221995  
 Comments: at 339 ppm, chromium at 42 ppm, copper at 1,920 ppm, dioxins  
 Comments Date: 12221995  
 Comments: at 1.9 ppb, and furans at .37 ppb. On April 18, 1988 O.H.  
 ID Name: BEP DATABASE PCODE  
 ID Value: P14055  
 ID Name: CALSTARS CODE  
 ID Value: 100141  
 Alternate Name: STRAWBERRY MANOR/PCB SITE  
 Alternate Name: STRAWBERRY MANOR PCB SITE  
 Alternate Name: OLMSTEAD SITE  
 Alternate Name: Not reported  
 Special Programs Code: Not reported  
 Special Programs Name: Not reported

**E38**  
**West**  
**1/2-1**  
**0.934 mi.**  
**4929 ft.**

**STRAWBERRY MANOR/PCB SITE**  
**188 OLMSTEAD**  
**SACRAMENTO, CA 95835**

**RESPONSE**  
**ENVIROSTOR**  
**CA BOND EXP. PLAN**

**S100833548**  
**N/A**

**Site 2 of 2 in cluster E**

**Relative:**  
**Lower**  
**Actual:**  
**29 ft.**

**RESPONSE:**  
 Name: STRAWBERRY MANOR PCB SITE  
 Address: 188 OLMSTEAD DR  
 City,State,Zip: SACRAMENTO, CA 95838  
 Facility ID: 34330034  
 Site Type: State Response  
 Site Type Detail: State Response or NPL  
 Acres: 1  
 National Priorities List: NO  
 Cleanup Oversight Agencies: SMBRP  
 Lead Agency Description: DTSC - Site Cleanup Program  
 Project Manager: Not reported  
 Supervisor: Fernando Amador  
 Division Branch: Cleanup Sacramento  
 Site Code: 100141  
 Site Mgmt. Req.: NONE SPECIFIED  
 Assembly: 07  
 Senate: 06  
 Special Program Status: Not reported  
 Status: Certified  
 Status Date: 06/01/1988

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**STRAWBERRY MANOR/PCB SITE (Continued)**

**S100833548**

Restricted Use: NO  
Funding: Responsible Party  
Latitude: 38.62335  
Longitude: -121.4631  
APN: NONE SPECIFIED  
Past Use: METAL RECLAMATION  
Potential COC : Lead Polychlorinated biphenyls (PCBs Copper and compounds  
Confirmed COC: Polychlorinated biphenyls (PCBs Copper and compounds Lead  
Potential Description: SOIL  
Alias Name: OLMSTEAD SITE  
Alias Type: Alternate Name  
Alias Name: STRAWBERRY MANOR/PCB SITE  
Alias Type: Alternate Name  
Alias Name: 110033617986  
Alias Type: EPA (FRS #)  
Alias Name: P14055  
Alias Type: PCode  
Alias Name: 100141  
Alias Type: Project Code (Site Code)  
Alias Name: 34330034  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: 06/01/1988  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

ENVIROSTOR:

Name: STRAWBERRY MANOR PCB SITE  
Address: 188 OLMSTEAD DR  
City,State,Zip: SACRAMENTO, CA 95838  
Facility ID: 34330034  
Status: Certified  
Status Date: 06/01/1988  
Site Code: 100141  
Site Type: State Response  
Site Type Detailed: State Response or NPL  
Acres: 1  
NPL: NO  
Regulatory Agencies: SMBRP  
Lead Agency: SMBRP  
Program Manager: Not reported  
Supervisor: Fernando Amador  
Division Branch: Cleanup Sacramento  
Assembly: 07

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**STRAWBERRY MANOR/PCB SITE (Continued)**

**S100833548**

Senate: 06  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Responsible Party  
Latitude: 38.62335  
Longitude: -121.4631  
APN: NONE SPECIFIED  
Past Use: METAL RECLAMATION  
Potential COC: Lead Polychlorinated biphenyls (PCBs Copper and compounds)  
Confirmed COC: Polychlorinated biphenyls (PCBs Copper and compounds Lead  
Potential Description: SOIL  
Alias Name: OLMSTEAD SITE  
Alias Type: Alternate Name  
Alias Name: STRAWBERRY MANOR/PCB SITE  
Alias Type: Alternate Name  
Alias Name: 110033617986  
Alias Type: EPA (FRS #)  
Alias Name: P14055  
Alias Type: PCode  
Alias Name: 100141  
Alias Type: Project Code (Site Code)  
Alias Name: 34330034  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: 06/01/1988  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

CA BOND EXP. PLAN:

Reponsible Party: COST RECOVERY/OPERATION AND MAINTENANCE SITE  
Project Revenue Source Company: Not reported  
Project Revenue Source Addr: Not reported  
Project Revenue Source City,St,Zip: Not reported  
Project Revenue Source Desc: The responsible parties funded the cleanup work. Bond funds were expended for preliminary assessment work and oversight. DHS will seek cost recovery for its direct costs including staff costs and overhead associated with the project.

Site Description: This is the location of a former salvage operation where metals from fluorescent light ballasts, capacitors and transformers were recovered and sold for scrap metal. The light ballast cases were burned prior to removing the metal. The site is located in a residential neighborhood.

Hazardous Waste Desc: Levels of polychlorinated biphenyls (PCBs) were found as high as 640 parts per million and low levels of dioxins were found in the soil. Dibenzofurans and dioxins were formed from the burning of the PCB oil-filled cases.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**STRAWBERRY MANOR/PCB SITE (Continued)**

**S100833548**

Threat To Public Health & Env: Soil was contaminated with PCBs and copper. No threat to the public health or environment exists now. 80 cubic yards of contaminated soil was removed and disposed of in a Class I Landfill.

Site Activity Status: This site was certified as remediated in June, 1988.

**F39  
 NNW  
 1/2-1  
 0.947 mi.  
 4999 ft.**

**HARRIS AVENUE PCB SITE  
 627 HARRIS AVENUE  
 SACRAMENTO, CA 95835**

**CA BOND EXP. PLAN S105960394  
 N/A**

**Site 1 of 2 in cluster F**

**Relative:  
 Higher  
 Actual:  
 34 ft.**

CA BOND EXP. PLAN:  
 Responsible Party: RESPONSIBLE PARTY-LEAD SITE CLEANUP WORKPLAN  
 Project Revenue Source Company: Not reported  
 Project Revenue Source Addr: Not reported  
 Project Revenue Source City,St,Zip: Not reported  
 Project Revenue Source Desc: Responsible parties are funding the required work. Bond funds have been expended for preliminary assessment work and oversight, therefore, DHS will undertake appropriate cost recovery action. DHS has budgeted \$100,000 for oversight costs related to the project. This site has not been identified as an NPL site, nor does it appear to be a likely candidate in the future. Therefore, it is unlikely that federal funds are a viable source of revenue.

Site Description: This site is the location of a former metal salvage operation where metals from fluorescent light ballasts, capacitors and industrial transformers were recovered and sold for scrap metal. The light ballast cases were burned prior to removing the metal. Oil from transformers was poured into several pits. The site is located in a residential neighborhood.

Hazardous Waste Desc: Levels of polychlorinated biphenyls (PCBs) were found as high as 640 parts per million and low levels of dioxins were found in the soil. Waste from industrial batteries is also suspected to be present. Tetra-dibenzofurans and dioxins (TCDD) were formed from the burning of the PCB oil-filled cases. TCDDs are also a by-product in the PCB formulation process.

Threat To Public Health & Env: The direct threat to the public health has been reduced by the fence enclosures around the contaminated soil and the covering of the contaminated soil with plastic. The principal routes of exposure are direct contact and inhalation. Both of these are controlled by the fencing and plastic. The most likely receptors are residents living adjacent to the site.

Site Activity Status: The site has been fenced and the soil covered with plastic. DHS has conducted soil sampling. In response to a remedial action order, responsible parties are implementing a site characterization and developing a remedial action plan.

**F40  
 NNW  
 1/2-1  
 0.947 mi.  
 4999 ft.**

**HARRIS AVENUE PCB SITE  
 627 HARRIS AVE  
 SACRAMENTO, CA 95838**

**RESPONSE S101481696  
 ENVIROSTOR N/A  
 CPS-SLIC  
 HIST Cal-Sites  
 CERS**

**Site 2 of 2 in cluster F**

**Relative:  
 Higher  
 Actual:  
 34 ft.**

RESPONSE:  
 Name: HARRIS AVENUE PCB SITE  
 Address: 627 HARRIS AVE  
 City,State,Zip: SACRAMENTO, CA 95838  
 Facility ID: 34330035  
 Site Type: State Response  
 Site Type Detail: State Response or NPL  
 Acres: Not reported  
 National Priorities List: NO

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HARRIS AVENUE PCB SITE (Continued)**

**S101481696**

Cleanup Oversight Agencies: NONE SPECIFIED  
Lead Agency Description: Not reported  
Project Manager: Not reported  
Supervisor: Not reported  
Division Branch: Cleanup Sacramento  
Site Code: 100166  
Site Mgmt. Req.: NONE SPECIFIED  
Assembly: 07  
Senate: 06  
Special Program Status: Not reported  
Status: Certified  
Status Date: 02/01/1990  
Restricted Use: NO  
Funding: Responsible Party  
Latitude: 38.63861  
Longitude: -121.4535  
APN: NONE SPECIFIED  
Past Use: ILLEGAL DUMPING, METAL RECLAMATION  
Potential COC : Lead Polychlorinated biphenyls (PCBs Copper and compounds  
Confirmed COC: Polychlorinated biphenyls (PCBs Copper and compounds Lead  
Potential Description: SOIL  
Alias Name: CAD982400046  
Alias Type: EPA Identification Number  
Alias Name: 110033613766  
Alias Type: EPA (FRS #)  
Alias Name: SLT5S2263265  
Alias Type: GeoTracker Global ID  
Alias Name: 100166  
Alias Type: Project Code (Site Code)  
Alias Name: 34330035  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: 02/01/1990  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

ENVIROSTOR:

Name: HARRIS AVENUE PCB SITE  
Address: 627 HARRIS AVE  
City,State,Zip: SACRAMENTO, CA 95838  
Facility ID: 34330035  
Status: Certified  
Status Date: 02/01/1990  
Site Code: 100166

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HARRIS AVENUE PCB SITE (Continued)**

**S101481696**

Site Type: State Response  
Site Type Detailed: State Response or NPL  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Not reported  
Division Branch: Cleanup Sacramento  
Assembly: 07  
Senate: 06  
Special Program: Not reported  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Responsible Party  
Latitude: 38.63861  
Longitude: -121.4535  
APN: NONE SPECIFIED  
Past Use: ILLEGAL DUMPING, METAL RECLAMATION  
Potential COC: Lead Polychlorinated biphenyls (PCBs Copper and compounds  
Confirmed COC: Polychlorinated biphenyls (PCBs Copper and compounds Lead  
Potential Description: SOIL  
Alias Name: CAD982400046  
Alias Type: EPA Identification Number  
Alias Name: 110033613766  
Alias Type: EPA (FRS #)  
Alias Name: SLT5S2263265  
Alias Type: GeoTracker Global ID  
Alias Name: 100166  
Alias Type: Project Code (Site Code)  
Alias Name: 34330035  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Certification  
Completed Date: 02/01/1990  
Comments: Not reported

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

SLIC REG 5:

Name: Sylvania & Amtech Lighting Services  
Address: 627 Harris Ave  
City: Sacramento  
Region: 5  
Facility Status: Remediation Underway  
Unit: Facility is a Spill or site

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HARRIS AVENUE PCB SITE (Continued)**

**S101481696**

Pollutant: PCB, Pb, Cu  
Lead Agency: Not reported  
Date Filed: / /  
Report Date: 12/04/89  
Date Added: Not reported  
Date Closed: Not reported

**CPS-SLIC:**

Name: SYLVANIA & AMTECH LIGHTING SERVICES  
Address: 627 HARRIS AVENUE  
City,State,Zip: SACRAMENTO, CA  
Region: STATE  
**Facility Status: Completed - Case Closed**  
Status Date: 02/01/1990  
Global Id: SLT5S2263265  
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL  
Lead Agency Case Number: 34330035  
Latitude: 38.6387609580911  
Longitude: -121.451251836304  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: SLT5S279  
File Location: Not reported  
Potential Media Affected: Soil  
Potential Contaminants of Concern: Copper, Lead  
Site History: The Department of Toxic Substances Control (DTSC) was the lead agency for the remediation of this Site. More documentation may be found at their Envirostor website ([http://www.envirostor.dtsc.ca.gov/public/profile\\_report.asp?global\\_id=34330035](http://www.envirostor.dtsc.ca.gov/public/profile_report.asp?global_id=34330035)). The Site was a metal salvage yard from 1970 until 1984. The outer coatings of electrical equipment were burned off to recover the copper and other metals. Dielectric fluids containing polychlorinated biphenyls (PCBs) were drained and soaked into the surrounding soils. In 1985, the Department of Health Services conducted an investigation and found high levels of PCBs, copper and lead. In December 1989, about 530 tons of contaminated soil were excavated from the Site. Confirmation soil samples did not contained concentrations above action levels. DTSC closed the Site on 1 February 1990.

Click here to access the California GeoTracker records for this facility:

**Calsite:**

Name: HARRIS AVENUE PCB SITE  
Address: 627 HARRIS AVE  
City: SACRAMENTO  
Region: SACRAMENTO  
Facility ID: 34330035  
Facility Type: RP  
Type: RESPONSIBLE PARTY  
Branch: CC  
Branch Name: CENTRAL CALIFORNIA  
File Name: Not reported  
State Senate District: 02011990  
Status: CERTIFIED AS HAVING BEEN REMEDIED SATISFACTORILY UNDER DTSC OVERSIGHT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HARRIS AVENUE PCB SITE (Continued)**

**S101481696**

Status Name: CERTIFIED  
Lead Agency: N/A  
NPL: Not reported  
SIC Code: 33  
SIC Name: MANU - PRIMARY METAL INDUSTRIES  
Access: Not reported  
Cortese: Not reported  
Hazardous Ranking Score: Not reported  
Date Site Hazard Ranked: Not reported  
Groundwater Contamination: Not reported  
Staff Member Responsible for Site: Not reported  
Supervisor Responsible for Site: Not reported  
Region Water Control Board: Not reported  
Region Water Control Board Name: Not reported  
Lat/Long Direction: Not reported  
Lat/Long (dms): 0 0 0 / 0 0 0  
Lat/long Method: Not reported  
Lat/Long Description: Not reported  
State Assembly District Code: 09  
State Senate District Code: 06  
Facility ID: 34330035  
Activity: CERT  
Activity Name: CERTIFICATION  
AWP Code: Not reported  
Proposed Budget: 0  
AWP Completion Date: Not reported  
Revised Due Date: Not reported  
Comments Date: 02011990  
Est Person-Yrs to complete: 0  
Estimated Size: Not reported  
Request to Delete Activity: Not reported  
Activity Status: CERT  
Definition of Status: CERTIFIED  
Liquids Removed (Gals): 0  
Liquids Treated (Gals): 0  
Action Included Capping: Not reported  
Well Decommissioned: Not reported  
Action Included Fencing: Not reported  
Removal Action Certification: Not reported  
Activity Comments: Not reported  
For Commercial Reuse: 0  
For Industrial Reuse: 0  
For Residential Reuse: 0  
Unknown Type: 0  
Alternate Address: 627 HARRIS AVENUE  
Alternate City,St,Zip: SACRAMENTO, CA 95835  
Alternate Address: 627 HARRIS AVE  
Alternate City,St,Zip: SACRAMENTO, CA 95838  
Background Info: Not reported  
Comments Date: 01011988  
Comments: This is the date the site was first listed AWP pursuant to  
Comments Date: 01011988  
Comments: Section 25356.  
Comments Date: 04181989  
Comments: SITE IS ON 1989 BOND EXPENDITURE PLAN  
Comments Date: 08191991  
Comments: Records Search: Site Certified as of February 1990.

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**HARRIS AVENUE PCB SITE (Continued)**

**S101481696**

ID Name: EPA IDENTIFICATION NUMBER  
 ID Value: CAD982400046  
 ID Name: CALSTARS CODE  
 ID Value: 100166  
 Alternate Name: HARRIS AVENUE PCB SITE  
 Alternate Name: Not reported  
 Special Programs Code: Not reported  
 Special Programs Name: Not reported

**CERS:**

Name: SYLVANIA & AMTECH LIGHTING SERVICES  
 Address: 627 HARRIS AVENUE  
 City,State,Zip: SACRAMENTO, CA  
 Site ID: 216011  
 CERS ID: SLT5S2263265  
 CERS Description: Cleanup Program Site

**Affiliation:**

Affiliation Type Desc: Regional Board Caseworker  
 Entity Name: zzz - CENTRAL VALLEY RWQCB (REGION 5S)  
 Entity Title: Not reported  
 Affiliation Address: 11020 SUN CENTER DRIVE #200  
 Affiliation City: RANCHO CORDOVA  
 Affiliation State: CA  
 Affiliation Country: Not reported  
 Affiliation Zip: Not reported  
 Affiliation Phone: ,

**41**  
**ESE**  
**1/2-1**  
**0.962 mi.**  
**5080 ft.**

**AMERICAN POLY-THERM COMPANY, INC.**  
**1636 KATHLEEN AVENUE**  
**SACRAMENTO, CA 95815**

**ENVIROSTOR** **S100185968**  
**CPS-SLIC** **N/A**  
**CHMIRS**  
**CERS**

**Relative:**  
**Higher**  
**Actual:**  
**40 ft.**

**ENVIROSTOR:**

Name: AMERICAN POLY-THERM COMPANY, INC.  
 Address: 1636 KATHLEEN AVENUE  
 City,State,Zip: SACRAMENTO, CA 95815  
 Facility ID: 34300001  
 Status: No Further Action  
 Status Date: 05/05/2015  
 Site Code: 100169  
 Site Type: Evaluation  
 Site Type Detailed: Evaluation  
 Acres: 1  
 NPL: NO  
 Regulatory Agencies: SMBRP, SACRAMENTO COUNTY  
 Lead Agency: SMBRP  
 Program Manager: Not reported  
 Supervisor: Fernando Amador  
 Division Branch: Cleanup Sacramento  
 Assembly: 07  
 Senate: 06  
 Special Program: EPA - PASI  
 Restricted Use: NO  
 Site Mgmt Req: NONE SPECIFIED  
 Funding: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMERICAN POLY-THERM COMPANY, INC. (Continued)**

**S100185968**

Latitude: 38.62140  
Longitude: -121.4284  
APN: 26504010020000  
Past Use: MANUFACTURING - OTHER  
Potential COC: \* HALOGENATED SOLVENTS \* HYDROCARBON SOLVENTS \* Metals - Other  
Inorganic Solid Waste \* ORGANIC MONOMER WASTE, INCLUDING UNREACTED  
RESINS \* OTHER ORGANIC SOLIDS \* OXYGENATED SOLVENTS \* CONTAMINATED  
SOIL Asbestos Containing Materials (ACM \* STILL BOTTOMS WITH  
HALOGENATED ORGANICS \* UNSPECIFIED SOLVENT MIXTURES \* WASTE OIL &  
MIXED OIL \* OTHER PESTICIDE CONTAINERS, 30 GALLONS OR MORE \*  
POLYMERIC RESIN WASTE  
Confirmed COC: NONE SPECIFIED  
Potential Description: SED, SOIL, SURFW  
Alias Name: SHASTA BOTTLING CO (PRIOR TO 1971)  
Alias Type: Alternate Name  
Alias Name: 26504010020000  
Alias Type: APN  
Alias Name: CAD009162637  
Alias Type: EPA Identification Number  
Alias Name: 110002635756  
Alias Type: EPA (FRS #)  
Alias Name: SLT5S0343075  
Alias Type: GeoTracker Global ID  
Alias Name: 100169  
Alias Type: Project Code (Site Code)  
Alias Name: 34300001  
Alias Type: Envirostor ID Number

**Completed Info:**

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 09/25/1991  
Comments: Listing SI recommended no further action for CERCLA. Site currently  
inactive. Site was on Department backlog for AWP. PEA recommended to  
assess the contamination threat.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \*Site Inspection (SI) Report  
Completed Date: 12/30/1988  
Comments: SAMPLE RESULTS - DHS SITE MITIGATION UNIT - SOIL SAMPLES & DITCH  
SEDIMENT FROM HAGGINWOOD CREEK SHOWS CONTAMINATION. SOIL: MOCA TO  
6700 PPM; DITCH SEDIMENT: MOCA TO 650 PPM; SOIL CORES:  
TRICHLOROETHENE, 1,1-DICHLOROETHANE, 1,1,1-TRICHLOROETHANE AT LOW PPB  
LEVELS TETRACHLOROETHYLENE = 260 PPB FBI FILES - ENFORCEMENT  
CONFIDENTIAL CVRWQCB - NO REGULATORY INVOLVEMENT SITE INSPECTION  
DONE. EPA RECOMMENDATION : LISTING SI FOR NPL.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 03/26/1987  
Comments: SITE SCREENING DONE. ONGOING INVESTIGATION BY FBI.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Triage Meeting

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMERICAN POLY-THERM COMPANY, INC. (Continued)**

**S100185968**

Completed Date: 06/11/2015  
Comments: Not reported

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Phase 1  
Completed Date: 12/22/2006  
Comments: DTSC received a copy of the Phase I and Phase II for the former company - American Poly Therm.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 09/17/2007  
Comments: DTSC mailed a No Further Action Letter to the site owner.

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

**CPS-SLIC:**

Name: AMERICAN POLY-THERM  
Address: 1636 KATHLEEN AVENUE  
City,State,Zip: SACRAMENTO, CA  
Region: STATE  
**Facility Status: Completed - Case Closed**  
Status Date: 05/05/2015  
Global Id: SLT5S0343075  
Lead Agency: DEPARTMENT OF TOXIC SUBSTANCES CONTROL  
Lead Agency Case Number: 34300001  
Latitude: 38.6215374466925  
Longitude: -121.428515202377  
Case Type: Cleanup Program Site  
Case Worker: Not reported  
Local Agency: Not reported  
RB Case Number: SLT5S034  
File Location: All Files are on GeoTracker or in the Local Agency Database  
Potential Media Affected: Sediments, Soil  
Potential Contaminants of Concern: Other Metal, Waste Oil / Motor / Hydraulic / Lubricating  
Site History: Compression molded plastic products were made here between 1971 and 1991. The Department of Health Services issued a Notice of Violation for improper handling of hazardous wastes in 1986. Sediments in Hagginwood Creek at outfall contained 650 mg/kg 4,4'-methylenebis(2-chloroaniline) [MOCA] in 1988. Soil borings on-site obtained in 1990 detected small amount of oil products, but not significant amounts of volatile organic compounds, polychlorinated biphenyl compounds, or semi-volatile organic compounds. Detections were below US EPA Residential Screening Levels. DTSC issued an NFA letter in 2007.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMERICAN POLY-THERM COMPANY, INC. (Continued)**

**S100185968**

[Click here to access the California GeoTracker records for this facility:](#)

CHMIRS:

|   |                           |
|---|---------------------------|
| Name:                                       | Not reported              |
| Address:                                    | 1636 KATHLEEN             |
| City,State,Zip:                             | SACRAMENTO, CA 95815-1808 |
| OES Incident Number:                        | 905458                    |
| OES notification:                           | Not reported              |
| OES Date:                                   | Not reported              |
| OES Time:                                   | Not reported              |
| <b>Date Completed:</b>                      | <b>28-MAR-89</b>          |
| Property Use:                               | 700                       |
| Agency Id Number:                           | 34080                     |
| Agency Incident Number:                     | 9729                      |
| Time Notified:                              | 2107                      |
| Time Completed:                             | 2256                      |
| Surrounding Area:                           | 500                       |
| Estimated Temperature:                      | 60                        |
| Property Management:                        | P                         |
| More Than Two Substances Involved?:         | N                         |
| Resp Agncy Personel # Of Decontaminated:    | 0                         |
| Responding Agency Personel # Of Injuries:   | 0                         |
| Responding Agency Personel # Of Fatalities: | 0                         |
| Others Number Of Decontaminated:            | 0                         |
| Others Number Of Injuries:                  | 0                         |
| Others Number Of Fatalities:                | 0                         |
| Vehicle Make/year:                          | Not reported              |
| Vehicle License Number:                     | Not reported              |
| Vehicle State:                              | Not reported              |
| Vehicle Id Number:                          | Not reported              |
| CA DOT PUC/ICC Number:                      | Not reported              |
| Company Name:                               | Not reported              |
| Reporting Officer Name/ID:                  | ERIC NAISBITT             |
| Report Date:                                | 29-MAR-89                 |
| Facility Telephone:                         | 916 449-5266              |
| Waterway Involved:                          | Not reported              |
| Waterway:                                   | Not reported              |
| Spill Site:                                 | Not reported              |
| Cleanup By:                                 | Not reported              |
| Containment:                                | Not reported              |
| What Happened:                              | Not reported              |
| Type:                                       | Not reported              |
| Measure:                                    | Not reported              |
| Other:                                      | Not reported              |
| Date/Time:                                  | Not reported              |
| Year:                                       | 88-92                     |
| Agency:                                     | Not reported              |
| Incident Date:                              | 28-MAR-89                 |
| Admin Agency:                               | Not reported              |
| Amount:                                     | Not reported              |
| Contained:                                  | Not reported              |
| Site Type:                                  | Not reported              |
| E Date:                                     | 08-MAY-90                 |
| Substance:                                  | Not reported              |
| Unknown:                                    | Not reported              |
| Substance #2:                               | Not reported              |

Map ID  
Direction  
Distance  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AMERICAN POLY-THERM COMPANY, INC. (Continued)**

**S100185968**

Substance #3: Not reported  
Evacuations: Not reported  
Number of Injuries: Not reported  
Number of Fatalities: Not reported  
#1 Pipeline: Not reported  
#2 Pipeline: Not reported  
#3 Pipeline: Not reported  
#1 Vessel >= 300 Tons: Not reported  
#2 Vessel >= 300 Tons: Not reported  
#3 Vessel >= 300 Tons: Not reported  
Evacs: Not reported  
Injuries: Not reported  
Fataals: Not reported  
Comments: Not reported  
Description: Not reported

**CERS:**

Name: AMERICAN POLY-THERM  
Address: 1636 KATHLEEN AVENUE  
City,State,Zip: SACRAMENTO, CA  
Site ID: 216493  
CERS ID: SLT5S0343075  
CERS Description: Cleanup Program Site

**Affiliation:**

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: zzz - CENTRAL VALLEY RWQCB (REGION 5S)  
Entity Title: Not reported  
Affiliation Address: 11020 SUN CENTER DRIVE #200  
Affiliation City: RANCHO CORDOVA  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: ,

42  
SE  
1/2-1  
0.997 mi.  
5265 ft.  
Relative:  
Higher  
Actual:  
48 ft.

**RT METRO  
2700 ACADEMY WAY  
SACRAMENTO, CA 95815**

**ENVIROSTOR S101590635  
Sacramento Co. CS N/A  
SWEEPS UST  
CA FID UST  
Sacramento Co. ML  
NPDES  
WDS  
CIWQS  
CERS  
HWTS**

**ENVIROSTOR:**

Name: JOHN TAYLOR FERTILIZER (INACTIVE #327)  
Address: 2700 ACADEMY WAY  
City,State,Zip: SACRAMENTO, CA 95815  
Facility ID: 34280146  
Status: No Further Action  
Status Date: 05/02/1989  
Site Code: Not reported  
Site Type: Historical  
Site Type Detailed: \* Historical  
Acres: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RT METRO (Continued)**

**S101590635**

NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Not reported  
Division Branch: Cleanup Sacramento  
Assembly: 07  
Senate: 06  
Special Program: \* CERC2  
Restricted Use: NO  
Site Mgmt Req: NONE SPECIFIED  
Funding: Not reported  
Latitude: 38.61591  
Longitude: -121.4312  
APN: NONE SPECIFIED  
Past Use: MAINTENANCE / CLEANING  
Potential COC: NONE SPECIFIED No Contaminants found  
Confirmed COC: No Contaminants found  
Potential Description: NMA  
Alias Name: CANNON BRICK COMPANY  
Alias Type: Alternate Name  
Alias Name: SOLD TO CALTRANS 1970  
Alias Type: Alternate Name  
Alias Name: 34280146  
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 03/09/1987  
Comments: SITE SCREENING DONE INDICATIONS OF WASTE ONSITE

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: \* Discovery  
Completed Date: 08/07/1980  
Comments: FACILITY IDENTIFIED INACTIVE # 327 MENTIONED ON QUEST DRIVE-BY  
REQUIRED ASP

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Assessment Report  
Completed Date: 05/02/1989  
Comments: PRELIM ASSESS DONE NFA UNDER CERCLA AND STATE

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: Not reported  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Not reported  
Schedule Due Date: Not reported  
Schedule Revised Date: Not reported

Sacramento Co. CS:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

RT METRO (Continued)

S101590635

Name: RT WAYSIDE STATION  
Address: 2700 ACADEMY WAY  
City,State,Zip: SACRAMENTO, CA  
State Site Number: B238  
Lead Staff: Rwb, R.  
Lead Agency: HM  
Remedial Action Taken: YE, S  
Substance: Diesel  
Date Reported: 08/14/1995  
Facility Id: RO0000133  
Case Type: Soil only  
Case Closed: Y  
**Date Closed: Not reported**  
**Case Type: Soil only affected**  
**Substance: Diesel**

SWEEPS UST:

Name: RT METRO  
Address: 2700 ACADEMY WAY  
City: SACRAMENTO  
Status: Active  
Comp Number: 2055  
Number: 6  
Board Of Equalization: Not reported  
Referral Date: 01-02-91  
Action Date: 01-02-91  
Created Date: 01-02-91  
Owner Tank Id: Not reported  
SWRCB Tank Id: 34-000-002055-000001  
Tank Status: A  
Capacity: 550  
Active Date: 01-02-91  
Tank Use: OIL  
STG: W  
Content: WASTE OIL  
Number Of Tanks: 1

CA FID UST:

Facility ID: 34003513  
Regulated By: UTNKA  
Regulated ID: CAD982472  
Cortese Code: Not reported  
SIC Code: Not reported  
Facility Phone: 9166488400  
Mail To: Not reported  
Mailing Address: P O BOX  
Mailing Address 2: Not reported  
Mailing City,St,Zip: SACRAMENTO 95815  
Contact: Not reported  
Contact Phone: Not reported  
DUNs Number: Not reported  
NPDES Number: Not reported  
EPA ID: Not reported  
Comments: Not reported  
Status: Active

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RT METRO (Continued)**

**S101590635**

Sacramento Co. ML:

Name: SACRAMENTO REGIONAL TRANSIT LIGHT  
Address: 2700 ACADEMY WAY  
City,State,Zip: SACRAMENTO, CA 95815  
Facility Id: Not reported  
Facility Status: Not reported  
FD: Not reported  
Billing Codes BP: A  
Billing Codes UST: A  
WG Bill Code: A  
Target Property Bill Cod: Not reported  
Food Bill Code: Not reported  
CUPA Permit Date: Not reported  
HAZMAT Permit Date: Not reported  
HAZMAT Inspection Date: Not reported  
Hazmat Date BP Received: Not reported  
UST Permit Dt: Not reported  
UST Inspection Date: Not reported  
UST Tank Test Date: Not reported  
Number of Tanks: 1  
UST Tank Test Date: Not reported  
SIC Code: Not reported  
Tier Permitting: Not reported  
AST Bill Code: Not reported  
CALARP Bill Code: Not reported

NPDES:

Name: SACRAMENTO REGIONAL TRANSIT DISTICT LIGHT RAIL MAINTENANCE FACILITY  
Address: 2700 ACADEMY WAY  
City,State,Zip: SACRAMENTO, CA 95815  
Facility Status: Active  
NPDES Number: CAS000001  
Region: 5S  
Agency Number: 0  
Regulatory Measure ID: 200656  
Place ID: Not reported  
Order Number: 97-03-DWQ  
WDID: 5S341002873  
Regulatory Measure Type: Enrollee  
Program Type: Industrial  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: 04/02/1992  
Termination Date Of Regulatory Measure: Not reported  
Expiration Date Of Regulatory Measure: Not reported  
Discharge Address: PO Box 2110  
Discharge Name: Sacramento Regional Transit  
Discharge City: Sacramento  
Discharge State: California  
Discharge Zip: 95812  
Status: Not reported  
Status Date: Not reported  
Operator Name: Not reported  
Operator Address: Not reported  
Operator City: Not reported  
Operator State: Not reported  
Operator Zip: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

RT METRO (Continued)

S101590635

NPDES as of 03/2018:

|   |                             |
|---|-----------------------------|
| NPDES Number:                           | CAS000001                   |
| Status:                                 | Active                      |
| Agency Number:                          | 0                           |
| Region:                                 | 5S                          |
| Regulatory Measure ID:                  | 200656                      |
| Order Number:                           | 97-03-DWQ                   |
| Regulatory Measure Type:                | Enrollee                    |
| Place ID:                               | Not reported                |
| WDID:                                   | 5S34I002873                 |
| Program Type:                           | Industrial                  |
| Adoption Date Of Regulatory Measure:    | Not reported                |
| Effective Date Of Regulatory Measure:   | 04/02/1992                  |
| Expiration Date Of Regulatory Measure:  | Not reported                |
| Termination Date Of Regulatory Measure: | Not reported                |
| Discharge Name:                         | Sacramento Regional Transit |
| Discharge Address:                      | PO Box 2110                 |
| Discharge City:                         | Sacramento                  |
| Discharge State:                        | California                  |
| Discharge Zip:                          | 95812                       |
| Received Date:                          | Not reported                |
| Processed Date:                         | Not reported                |
| Status:                                 | Not reported                |
| Status Date:                            | Not reported                |
| Place Size:                             | Not reported                |
| Place Size Unit:                        | Not reported                |
| Contact:                                | Not reported                |
| Contact Title:                          | Not reported                |
| Contact Phone:                          | Not reported                |
| Contact Phone Ext:                      | Not reported                |
| Contact Email:                          | Not reported                |
| Operator Name:                          | Not reported                |
| Operator Address:                       | Not reported                |
| Operator City:                          | Not reported                |
| Operator State:                         | Not reported                |
| Operator Zip:                           | Not reported                |
| Operator Contact:                       | Not reported                |
| Operator Contact Title:                 | Not reported                |
| Operator Contact Phone:                 | Not reported                |
| Operator Contact Phone Ext:             | Not reported                |
| Operator Contact Email:                 | Not reported                |
| Operator Type:                          | Not reported                |
| Developer:                              | Not reported                |
| Developer Address:                      | Not reported                |
| Developer City:                         | Not reported                |
| Developer State:                        | Not reported                |
| Developer Zip:                          | Not reported                |
| Developer Contact:                      | Not reported                |
| Developer Contact Title:                | Not reported                |
| Constype Linear Utility Ind:            | Not reported                |
| Emergency Phone:                        | Not reported                |
| Emergency Phone Ext:                    | Not reported                |
| Constype Above Ground Ind:              | Not reported                |
| Constype Below Ground Ind:              | Not reported                |
| Constype Cable Line Ind:                | Not reported                |
| Constype Comm Line Ind:                 | Not reported                |
| Constype Commercial Ind:                | Not reported                |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

RT METRO (Continued)

S101590635

|   |                             |
|---|-----------------------------|
| Constype Electrical Line Ind:           | Not reported                |
| Constype Gas Line Ind:                  | Not reported                |
| Constype Industrial Ind:                | Not reported                |
| Constype Other Description:             | Not reported                |
| Constype Other Ind:                     | Not reported                |
| Constype Recons Ind:                    | Not reported                |
| Constype Residential Ind:               | Not reported                |
| Constype Transport Ind:                 | Not reported                |
| Constype Utility Description:           | Not reported                |
| Constype Utility Ind:                   | Not reported                |
| Constype Water Sewer Ind:               | Not reported                |
| Dir Discharge Uswater Ind:              | Not reported                |
| Receiving Water Name:                   | Not reported                |
| Certifier:                              | Not reported                |
| Certifier Title:                        | Not reported                |
| Certification Date:                     | Not reported                |
| Primary Sic:                            | Not reported                |
| Secondary Sic:                          | Not reported                |
| Tertiary Sic:                           | Not reported                |
| NPDES Number:                           | Not reported                |
| Status:                                 | Not reported                |
| Agency Number:                          | Not reported                |
| Region:                                 | 5S                          |
| Regulatory Measure ID:                  | 200656                      |
| Order Number:                           | Not reported                |
| Regulatory Measure Type:                | Industrial                  |
| Place ID:                               | Not reported                |
| WDID:                                   | 5S34I002873                 |
| Program Type:                           | Not reported                |
| Adoption Date Of Regulatory Measure:    | Not reported                |
| Effective Date Of Regulatory Measure:   | Not reported                |
| Expiration Date Of Regulatory Measure:  | Not reported                |
| Termination Date Of Regulatory Measure: | Not reported                |
| Discharge Name:                         | Not reported                |
| Discharge Address:                      | Not reported                |
| Discharge City:                         | Not reported                |
| Discharge State:                        | Not reported                |
| Discharge Zip:                          | Not reported                |
| Received Date:                          | 05/09/2008                  |
| Processed Date:                         | 04/02/1992                  |
| Status:                                 | Active                      |
| Status Date:                            | 10/30/2015                  |
| Place Size:                             | 24                          |
| Place Size Unit:                        | Acres                       |
| Contact:                                | Rob Hoslett                 |
| Contact Title:                          | Senior Safety Specialist    |
| Contact Phone:                          | 916-321-3869                |
| Contact Phone Ext:                      | Not reported                |
| Contact Email:                          | rhoslett@sacrt.com          |
| Operator Name:                          | Sacramento Regional Transit |
| Operator Address:                       | PO Box 2110                 |
| Operator City:                          | Sacramento                  |
| Operator State:                         | California                  |
| Operator Zip:                           | 95812                       |
| Operator Contact:                       | Mark Longeran               |
| Operator Contact Title:                 | Chief Operating Officer     |

Map ID  
Direction  
Distance  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RT METRO (Continued)**

**S101590635**

Operator Contact Phone: 916-321-2800  
Operator Contact Phone Ext: Not reported  
Operator Contact Email: mlongeron@sacrt.com  
Operator Type: Special District  
Developer: Not reported  
Developer Address: Not reported  
Developer City: Not reported  
Developer State: California  
Developer Zip: Not reported  
Developer Contact: Not reported  
Developer Contact Title: Not reported  
Constype Linear Utility Ind: Not reported  
Emergency Phone: Not reported  
Emergency Phone Ext: Not reported  
Constype Above Ground Ind: Not reported  
Constype Below Ground Ind: Not reported  
Constype Cable Line Ind: Not reported  
Constype Comm Line Ind: Not reported  
Constype Commercial Ind: Not reported  
Constype Electrical Line Ind: Not reported  
Constype Gas Line Ind: Not reported  
Constype Industrial Ind: Not reported  
Constype Other Description: Not reported  
Constype Other Ind: Not reported  
Constype Recons Ind: Not reported  
Constype Residential Ind: Not reported  
Constype Transport Ind: Not reported  
Constype Utility Description: Not reported  
Constype Utility Ind: Not reported  
Constype Water Sewer Ind: Not reported  
Dir Discharge Uswater Ind: N  
Receiving Water Name: American River  
Certifier: Michael Wiley  
Certifier Title: General Manager  
Certification Date: 20-MAY-15  
Primary Sic: 4111-Local and Suburban Transit  
Secondary Sic: Not reported  
Tertiary Sic: Not reported

Name: SACRAMENTO REGIONAL TRANSIT DISTRICT LIGHT RAIL MAINTENANCE FACILITY  
Address: 2700 ACADEMY WAY  
City,State,Zip: SACRAMENTO, CA 95815  
Facility Status: Not reported  
NPDES Number: Not reported  
Region: Not reported  
Agency Number: Not reported  
Regulatory Measure ID: Not reported  
Place ID: Not reported  
Order Number: Not reported  
WDID: 5S34I002873  
Regulatory Measure Type: Industrial  
Program Type: Not reported  
Adoption Date Of Regulatory Measure: Not reported  
Effective Date Of Regulatory Measure: Not reported  
Termination Date Of Regulatory Measure: Not reported  
Expiration Date Of Regulatory Measure: Not reported

Map ID  
Direction  
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RT METRO (Continued)**

**S101590635**

|   |                             |
|---|-----------------------------|
| Discharge Address:                      | Not reported                |
| Discharge Name:                         | Not reported                |
| Discharge City:                         | Not reported                |
| Discharge State:                        | Not reported                |
| Discharge Zip:                          | Not reported                |
| Status:                                 | Active                      |
| Status Date:                            | 10/30/2015                  |
| Operator Name:                          | Sacramento Regional Transit |
| Operator Address:                       | PO Box 2110                 |
| Operator City:                          | Sacramento                  |
| Operator State:                         | California                  |
| Operator Zip:                           | 95812                       |
| NPDES as of 03/2018:                    |                             |
| NPDES Number:                           | CAS000001                   |
| Status:                                 | Active                      |
| Agency Number:                          | 0                           |
| Region:                                 | 5S                          |
| Regulatory Measure ID:                  | 200656                      |
| Order Number:                           | 97-03-DWQ                   |
| Regulatory Measure Type:                | Enrollee                    |
| Place ID:                               | Not reported                |
| WDID:                                   | 5S34I002873                 |
| Program Type:                           | Industrial                  |
| Adoption Date Of Regulatory Measure:    | Not reported                |
| Effective Date Of Regulatory Measure:   | 04/02/1992                  |
| Expiration Date Of Regulatory Measure:  | Not reported                |
| Termination Date Of Regulatory Measure: | Not reported                |
| Discharge Name:                         | Sacramento Regional Transit |
| Discharge Address:                      | PO Box 2110                 |
| Discharge City:                         | Sacramento                  |
| Discharge State:                        | California                  |
| Discharge Zip:                          | 95812                       |
| Received Date:                          | Not reported                |
| Processed Date:                         | Not reported                |
| Status:                                 | Not reported                |
| Status Date:                            | Not reported                |
| Place Size:                             | Not reported                |
| Place Size Unit:                        | Not reported                |
| Contact:                                | Not reported                |
| Contact Title:                          | Not reported                |
| Contact Phone:                          | Not reported                |
| Contact Phone Ext:                      | Not reported                |
| Contact Email:                          | Not reported                |
| Operator Name:                          | Not reported                |
| Operator Address:                       | Not reported                |
| Operator City:                          | Not reported                |
| Operator State:                         | Not reported                |
| Operator Zip:                           | Not reported                |
| Operator Contact:                       | Not reported                |
| Operator Contact Title:                 | Not reported                |
| Operator Contact Phone:                 | Not reported                |
| Operator Contact Phone Ext:             | Not reported                |
| Operator Contact Email:                 | Not reported                |
| Operator Type:                          | Not reported                |
| Developer:                              | Not reported                |
| Developer Address:                      | Not reported                |
| Developer City:                         | Not reported                |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

RT METRO (Continued)

S101590635

|   |              |
|---|--------------|
| Developer State:                        | Not reported |
| Developer Zip:                          | Not reported |
| Developer Contact:                      | Not reported |
| Developer Contact Title:                | Not reported |
| Constype Linear Utility Ind:            | Not reported |
| Emergency Phone:                        | Not reported |
| Emergency Phone Ext:                    | Not reported |
| Constype Above Ground Ind:              | Not reported |
| Constype Below Ground Ind:              | Not reported |
| Constype Cable Line Ind:                | Not reported |
| Constype Comm Line Ind:                 | Not reported |
| Constype Commercial Ind:                | Not reported |
| Constype Electrical Line Ind:           | Not reported |
| Constype Gas Line Ind:                  | Not reported |
| Constype Industrial Ind:                | Not reported |
| Constype Other Description:             | Not reported |
| Constype Other Ind:                     | Not reported |
| Constype Recons Ind:                    | Not reported |
| Constype Residential Ind:               | Not reported |
| Constype Transport Ind:                 | Not reported |
| Constype Utility Description:           | Not reported |
| Constype Utility Ind:                   | Not reported |
| Constype Water Sewer Ind:               | Not reported |
| Dir Discharge Uswater Ind:              | Not reported |
| Receiving Water Name:                   | Not reported |
| Certifier:                              | Not reported |
| Certifier Title:                        | Not reported |
| Certification Date:                     | Not reported |
| Primary Sic:                            | Not reported |
| Secondary Sic:                          | Not reported |
| Tertiary Sic:                           | Not reported |
| NPDES Number:                           | Not reported |
| Status:                                 | Not reported |
| Agency Number:                          | Not reported |
| Region:                                 | 5S           |
| Regulatory Measure ID:                  | 200656       |
| Order Number:                           | Not reported |
| Regulatory Measure Type:                | Industrial   |
| Place ID:                               | Not reported |
| WDID:                                   | 5S34I002873  |
| Program Type:                           | Not reported |
| Adoption Date Of Regulatory Measure:    | Not reported |
| Effective Date Of Regulatory Measure:   | Not reported |
| Expiration Date Of Regulatory Measure:  | Not reported |
| Termination Date Of Regulatory Measure: | Not reported |
| Discharge Name:                         | Not reported |
| Discharge Address:                      | Not reported |
| Discharge City:                         | Not reported |
| Discharge State:                        | Not reported |
| Discharge Zip:                          | Not reported |
| Received Date:                          | 05/09/2008   |
| Processed Date:                         | 04/02/1992   |
| Status:                                 | Active       |
| Status Date:                            | 10/30/2015   |
| Place Size:                             | 24           |
| Place Size Unit:                        | Acres        |

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RT METRO (Continued)**

**S101590635**

Contact: Rob Hoslett  
Contact Title: Senior Safety Specialist  
Contact Phone: 916-321-3869  
Contact Phone Ext: Not reported  
Contact Email: rhoslett@sacrt.com  
Operator Name: Sacramento Regional Transit  
Operator Address: PO Box 2110  
Operator City: Sacramento  
Operator State: California  
Operator Zip: 95812  
Operator Contact: Mark Longeran  
Operator Contact Title: Chief Operating Officer  
Operator Contact Phone: 916-321-2800  
Operator Contact Phone Ext: Not reported  
Operator Contact Email: mlongeron@sacrt.com  
Operator Type: Special District  
Developer: Not reported  
Developer Address: Not reported  
Developer City: Not reported  
Developer State: California  
Developer Zip: Not reported  
Developer Contact: Not reported  
Developer Contact Title: Not reported  
Constype Linear Utility Ind: Not reported  
Emergency Phone: Not reported  
Emergency Phone Ext: Not reported  
Constype Above Ground Ind: Not reported  
Constype Below Ground Ind: Not reported  
Constype Cable Line Ind: Not reported  
Constype Comm Line Ind: Not reported  
Constype Commercial Ind: Not reported  
Constype Electrical Line Ind: Not reported  
Constype Gas Line Ind: Not reported  
Constype Industrial Ind: Not reported  
Constype Other Description: Not reported  
Constype Other Ind: Not reported  
Constype Recons Ind: Not reported  
Constype Residential Ind: Not reported  
Constype Transport Ind: Not reported  
Constype Utility Description: Not reported  
Constype Utility Ind: Not reported  
Constype Water Sewer Ind: Not reported  
Dir Discharge Uswater Ind: N  
Receiving Water Name: American River  
Certifier: Michael Wiley  
Certifier Title: General Manager  
Certification Date: 20-MAY-15  
Primary Sic: 4111-Local and Suburban Transit  
Secondary Sic: Not reported  
Tertiary Sic: Not reported

**WDS:**

Name: LIGHT RAIL MAINTENANCE FACILIT  
Address: 2700 ACADEMY WAY  
City: SACRAMENTO  
Facility ID: 5S 341002873

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RT METRO (Continued)**

**S101590635**

Facility Type: Not reported  
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.  
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board  
Subregion: 0  
Facility Telephone: Not reported  
Facility Contact: Not reported  
Agency Name: REGIONAL TRANSIT DISTRICT  
Agency Address: Not reported  
Agency City,St,Zip: 0  
Agency Contact: Not reported  
Agency Telephone: Not reported  
Agency Type: Not reported  
SIC Code: 0  
SIC Code 2: Not reported  
Primary Waste Type: Not reported  
Primary Waste: Not reported  
Waste Type2: Not reported  
Waste2: Not reported  
Primary Waste Type: Not reported  
Secondary Waste: Not reported  
Secondary Waste Type: Not reported  
Design Flow: 0  
Baseline Flow: 0  
Reclamation: Not reported  
POTW: Not reported  
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.  
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

**CIWQS:**

Name: SACRAMENTO REGIONAL TRANSIT DISTRICT LIGHT RAIL MAINTENANCE FACILITY  
Address: 2700 ACADEMY WAY  
City,State,Zip: SACRAMENTO, CA 95815  
Agency: Sacramento Regional Transit  
Agency Address: PO Box 2110, Sacramento, CA 95812  
Place/Project Type: Industrial - Local and Suburban Transit  
SIC/NAICS: 4111  
Region: 5S  
Program: INDSTW  
Regulatory Measure Status: Active  
Regulatory Measure Type: Storm water industrial  
Order Number: 2014-0057-DWQ  
WDID: 5S34I002873  
NPDES Number: CAS000001  
Adoption Date: Not reported  
Effective Date: 04/02/1992

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RT METRO (Continued)**

**S101590635**

Termination Date: Not reported  
Expiration/Review Date: Not reported  
Design Flow: Not reported  
Major/Minor: Not reported  
Complexity: Not reported  
TTWQ: Not reported  
Enforcement Actions within 5 years: 5  
Violations within 5 years: 3  
Latitude: 38.617036  
Longitude: -121.430696

**CERS:**

Name: SACRAMENTO REGIONAL TRANSIT DISTRICT LIGHT RAIL MAINTENANCE FACILITY  
Address: 2700 ACADEMY WAY  
City,State,Zip: SACRAMENTO, CA 95815  
Site ID: 541440  
CERS ID: 236988  
CERS Description: Industrial Facility Storm Water

**Violations:**

Site ID: 541440  
Site Name: Sacramento Regional Transit District Light Rail Maintenance Facility  
Violation Date: 07-15-2017  
Citation: 2014-0057-DWQ - Industrial General Permit  
Violation Description: SW - Late Report  
Violation Notes: late 16-17 Annual Report  
Violation Division: Water Boards  
Violation Program: INDSTW  
Violation Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit District Light Rail Maintenance Facility  
Violation Date: 07-15-2020  
Citation: 2014-0057-DWQ - Industrial General Permit  
Violation Description: SW - Late Report  
Violation Notes: Late 2019-2020 Annual Report  
Violation Division: Water Boards  
Violation Program: INDSTW  
Violation Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit District Light Rail Maintenance Facility  
Violation Date: 07-14-2000  
Citation: 2014-0057-DWQ - Industrial General Permit  
Violation Description: SW - Deficient BMP Implementation  
Violation Notes: NTC - potential discharge of used motor oil in 1 gallon container near MOW  
Violation Division: Water Boards  
Violation Program: INDSTW  
Violation Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit District Light Rail Maintenance Facility  
Violation Date: 07-14-2000  
Citation: 2014-0057-DWQ - Industrial General Permit  
Violation Description: Unauthorized Discharge  
Violation Notes: Potential discharge of used motor oil in 1 gallon container near MOW,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

RT METRO (Continued)

S101590635

paint thinner  
Violation Division: Water Boards  
Violation Program: INDSTW  
Violation Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit Distict Light Rail Maintenance Facility  
Violation Date: 07-15-2016  
Citation: 2014-0057-DWQ - Industrial General Permit  
Violation Description: SW - Late Report  
Violation Notes: late 15/16 annual report  
Violation Division: Water Boards  
Violation Program: INDSTW  
Violation Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit Distict Light Rail Maintenance Facility  
Violation Date: 07-15-2019  
Citation: 2014-0057-DWQ - Industrial General Permit  
Violation Description: SW - Late Report  
Violation Notes: Failure to submit 2018-2019 Annual Report  
Violation Division: Water Boards  
Violation Program: INDSTW  
Violation Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit Distict Light Rail Maintenance Facility  
Violation Date: 07-01-2007  
Citation: 2014-0057-DWQ - Industrial General Permit  
Violation Description: SW - Deficient BMP Implementation  
Violation Notes: Failure to maintain stormwater BMPs. Exceedance of EPA benchmarks.  
Violation Division: Water Boards  
Violation Program: INDSTW  
Violation Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit Distict Light Rail Maintenance Facility  
Violation Date: 07-15-2021  
Citation: 2014-0057-DWQ - Industrial General Permit  
Violation Description: SW - Late Report  
Violation Notes: Late 2020-2021 Annual Report  
Violation Division: Water Boards  
Violation Program: INDSTW  
Violation Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit Distict Light Rail Maintenance Facility  
Violation Date: 07-02-2010  
Citation: 2014-0057-DWQ - Industrial General Permit  
Violation Description: SW - Late Report  
Violation Notes: Late Annual Report  
Violation Division: Water Boards  
Violation Program: INDSTW  
Violation Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit Distict Light Rail Maintenance Facility

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RT METRO (Continued)**

**S101590635**

Violation Date: 08-15-2015  
Citation: 2014-0057-DWQ - Industrial General Permit  
Violation Description: SW - Late Report  
Violation Notes: Failure to submit 2014 - 2015 Annual Report by due date  
Violation Division: Water Boards  
Violation Program: INDSTW  
Violation Source: SMARTS,  
  
Site ID: 541440  
Site Name: Sacramento Regional Transit District Light Rail Maintenance Facility  
Violation Date: 07-02-1999  
Citation: 2014-0057-DWQ - Industrial General Permit  
Violation Description: SW - Deficient Report  
Violation Notes: Non-submittal of Annual Report. Due 7/1/1999  
Violation Division: Water Boards  
Violation Program: INDSTW  
Violation Source: SMARTS,

**Evaluation:**

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 09-20-2019  
Violations Found: No  
Eval Type: Industrial Storm Water Compliance Evaluation

Eval Notes: On 20 September 2019, Central Valley Regional Water Quality Control Board staff (Board staff) inspected the Sacramento Regional Transit District Light Rail Maintenance Facility (Facility) located at 2700 Academy Way in Sacramento. The Facility is enrolled under the State Water Resources Control Board's General Permit for Storm Water Discharges Associated with Industrial Activities, Order 2014-0057-DWQ (Industrial General Permit). Maintenance on Sacramento Regional Transit (Sac RT) vehicles and light rail trains are performed at this Facility. Board staff met with the Chief of Environmental Health and System Safety, Robert Hoslett, who consented to the inspection and for photos to be taken. The Storm Water Pollution Prevention Plan (SWPPP) uploaded to SMARTS was reviewed prior to the inspection and appeared to be outdated. For example, the SWPPP mentions that observations occur two times during the dry season and during the first hour of one storm event per month during the wet season. According to Mr. Hoslett, visual observations occur monthly. Additionally, the SWPPP also mentions that the Facility will analyze storm water samples for creosol and ethylene glycol, even though those tests are no longer ordered. Training records and visual observation records were not available during the inspection. Board staff requested that Mr. Hoslett submit copies of the records via email. (...continued. See attached inspection report.)

Eval Division: Water Boards  
Eval Program: INDSTW  
Eval Source: SMARTS,

**Enforcement Action:**

Site ID: 541440  
Site Name: Sacramento Regional Transit District Light Rail Maintenance Facility  
Site Address: 2700 ACADEMY WAY  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 02-14-2022

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RT METRO (Continued)**

**S101590635**

Enf Action Type: Industrial Storm Water Enforcement  
Enf Action Description: Industrial Storm Water Enforcement  
Enf Action Notes: NNC for Late 2020-2021 Annual Report  
Enf Action Division: Water Boards  
Enf Action Program: INDSTW  
Enf Action Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit Distict Light Rail Maintenance Facility  
Site Address: 2700 ACADEMY WAY  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 05-01-2008  
Enf Action Type: Staff Enforcement Letter  
Enf Action Description: Staff Enforcement Letter  
Enf Action Notes: SEL for exceedance of benchmark values in storm water discharges, indicating a need to improve BMPs.  
Enf Action Division: Water Boards  
Enf Action Program: INDSTW  
Enf Action Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit Distict Light Rail Maintenance Facility  
Site Address: 2700 ACADEMY WAY  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 07-14-2000  
Enf Action Type: Notice to Comply  
Enf Action Description: Notice to Comply  
Enf Action Notes: N/A  
Enf Action Division: Water Boards  
Enf Action Program: INDSTW  
Enf Action Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit Distict Light Rail Maintenance Facility  
Site Address: 2700 ACADEMY WAY  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 08-03-2017  
Enf Action Type: Industrial Storm Water Enforcement  
Enf Action Description: Industrial Storm Water Enforcement  
Enf Action Notes: 1st NNC for late 16-17 Annual Report  
Enf Action Division: Water Boards  
Enf Action Program: INDSTW  
Enf Action Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit Distict Light Rail Maintenance Facility  
Site Address: 2700 ACADEMY WAY  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 08-17-2020  
Enf Action Type: Industrial Storm Water Enforcement  
Enf Action Description: Industrial Storm Water Enforcement  
Enf Action Notes: NNC for Late 2019-2020 Annual Report  
Enf Action Division: Water Boards

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RT METRO (Continued)**

**S101590635**

Enf Action Program: INDSTW  
Enf Action Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit Distict Light Rail Maintenance Facility  
Site Address: 2700 ACADEMY WAY  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 08-19-2010  
Enf Action Type: Industrial Storm Water Enforcement  
Enf Action Description: Industrial Storm Water Enforcement  
Enf Action Notes: 1st NNC For Late Annual Report  
Enf Action Division: Water Boards  
Enf Action Program: INDSTW  
Enf Action Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit Distict Light Rail Maintenance Facility  
Site Address: 2700 ACADEMY WAY  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 08-27-2019  
Enf Action Type: Industrial Storm Water Enforcement  
Enf Action Description: Industrial Storm Water Enforcement  
Enf Action Notes: Failure to submit 2018-2019 Annual Report  
Enf Action Division: Water Boards  
Enf Action Program: INDSTW  
Enf Action Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit Distict Light Rail Maintenance Facility  
Site Address: 2700 ACADEMY WAY  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 08-30-2021  
Enf Action Type: Industrial Storm Water Enforcement  
Enf Action Description: Industrial Storm Water Enforcement  
Enf Action Notes: NNC for Late 2020-2021 Annual Report  
Enf Action Division: Water Boards  
Enf Action Program: INDSTW  
Enf Action Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit Distict Light Rail Maintenance Facility  
Site Address: 2700 ACADEMY WAY  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 09-12-2016  
Enf Action Type: Industrial Storm Water Enforcement  
Enf Action Description: Industrial Storm Water Enforcement  
Enf Action Notes: 1st NNC for late 15/16 annual report  
Enf Action Division: Water Boards  
Enf Action Program: INDSTW  
Enf Action Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit Distict Light Rail Maintenance Facility

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RT METRO (Continued)**

**S101590635**

Site Address: 2700 ACADEMY WAY  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 09-16-2015  
Enf Action Type: Industrial Storm Water Enforcement  
Enf Action Description: Industrial Storm Water Enforcement  
Enf Action Notes: Failure to submit 2014-2015 Annual Report by due date  
Enf Action Division: Water Boards  
Enf Action Program: INDSTW  
Enf Action Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit Distict Light Rail Maintenance Facility  
Site Address: 2700 ACADEMY WAY  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 10-04-2017  
Enf Action Type: Industrial Storm Water Enforcement  
Enf Action Description: Industrial Storm Water Enforcement  
Enf Action Notes: 2nd NNC for late 16-17 AR  
Enf Action Division: Water Boards  
Enf Action Program: INDSTW  
Enf Action Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit Distict Light Rail Maintenance Facility  
Site Address: 2700 ACADEMY WAY  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 10-26-1999  
Enf Action Type: Notice of Violation  
Enf Action Description: Notice of Violation  
Enf Action Notes: Notice of Violation for non-submittal of Annual Report  
Enf Action Division: Water Boards  
Enf Action Program: INDSTW  
Enf Action Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit Distict Light Rail Maintenance Facility  
Site Address: 2700 ACADEMY WAY  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 10-28-2016  
Enf Action Type: Industrial Storm Water Enforcement  
Enf Action Description: Industrial Storm Water Enforcement  
Enf Action Notes: 2nd NNC for 15-16 AR  
Enf Action Division: Water Boards  
Enf Action Program: INDSTW  
Enf Action Source: SMARTS,

Site ID: 541440  
Site Name: Sacramento Regional Transit Distict Light Rail Maintenance Facility  
Site Address: 2700 ACADEMY WAY  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 11-09-2020  
Enf Action Type: Industrial Storm Water Enforcement

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RT METRO (Continued)**

**S101590635**

Enf Action Description: Industrial Storm Water Enforcement  
Enf Action Notes: NNC for Late 2019-2020 Annual Report  
Enf Action Division: Water Boards  
Enf Action Program: INDSTW  
Enf Action Source: SMARTS,  
  
Site ID: 541440  
Site Name: Sacramento Regional Transit District Light Rail Maintenance Facility  
Site Address: 2700 ACADEMY WAY  
Site City: SACRAMENTO  
Site Zip: 95815  
Enf Action Date: 11-30-1999  
Enf Action Type: Notice of Violation  
Enf Action Description: Notice of Violation  
Enf Action Notes: Second Notice of Violation for non-submittal of Annual Report  
Enf Action Division: Water Boards  
Enf Action Program: INDSTW  
Enf Action Source: SMARTS,

Affiliation:

Affiliation Type Desc: Owner/Operator  
Entity Name: Sacramento Regional Transit  
Entity Title: Operator  
Affiliation Address: PO Box 2110  
Affiliation City: Sacramento  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 95812  
Affiliation Phone: ,

HWTS:

Name: RT METRO  
Address: 2700 ACADEMY WAY  
Address 2: Not reported  
City,State,Zip: SACRAMENTO, CA 95815  
EPA ID: CAL000039932  
Inactive Date: 07/20/1992  
Create Date: 09/17/1990  
Last Act Date: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 2110  
Mailing Address 2: Not reported  
Mailing City,State,Zip: SACRAMENTO, CA 958120000  
Owner Name: SACRAMENTO REGIONAL  
Owner Address: Not reported  
Owner Address 2: Not reported  
Owner City,State,Zip: Not reported  
Contact Name: Not reported  
Contact Address: DEACTIVATED PER LTR 7/20/92  
Contact Address 2: Not reported  
City,State,Zip: Not reported  
Facility Status: Inactive  
Facility Type: PERMANENT  
Category: STATE  
Latitude: 38.616407

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RT METRO (Continued)**

**S101590635**

Longitude:

-121.431354

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**

### ***Lists of Federal NPL (Superfund) sites***

#### **NPL: National Priority List**

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

|   |  |
|---|--|
| Date of Government Version: 01/25/2023  | Source: EPA                            |
| Date Data Arrived at EDR: 02/03/2023    | Telephone: N/A                         |
| Date Made Active in Reports: 02/28/2023 | Last EDR Contact: 03/01/2023           |
| Number of Days to Update: 25            | Next Scheduled EDR Contact: 04/10/2023 |
|   | Data Release Frequency: Quarterly      |

#### **NPL Site Boundaries**

##### **Sources:**

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### **Proposed NPL: Proposed National Priority List Sites**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

|   |  |
|---|--|
| Date of Government Version: 01/25/2023  | Source: EPA                            |
| Date Data Arrived at EDR: 02/02/2023    | Telephone: N/A                         |
| Date Made Active in Reports: 02/28/2023 | Last EDR Contact: 03/01/2023           |
| Number of Days to Update: 26            | Next Scheduled EDR Contact: 04/10/2023 |
|   | Data Release Frequency: Quarterly      |

#### **NPL LIENS: Federal Superfund Liens**

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

# 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

## ***Lists of Federal Delisted NPL sites***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 01/25/2023  
Date Data Arrived at EDR: 02/02/2023  
Date Made Active in Reports: 02/28/2023  
Number of Days to Update: 26

Source: EPA  
Telephone: N/A  
Last EDR Contact: 03/01/2023  
Next Scheduled EDR Contact: 04/10/2023  
Data Release Frequency: Quarterly

## ***Lists of Federal sites subject to CERCLA removals and CERCLA orders***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/20/2022  
Date Data Arrived at EDR: 12/21/2022  
Date Made Active in Reports: 03/10/2023  
Number of Days to Update: 79

Source: Environmental Protection Agency  
Telephone: 703-603-8704  
Last EDR Contact: 12/21/2022  
Next Scheduled EDR Contact: 04/10/2023  
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly 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: 01/25/2023  
Date Data Arrived at EDR: 02/02/2023  
Date Made Active in Reports: 02/28/2023  
Number of Days to Update: 26

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 03/01/2023  
Next Scheduled EDR Contact: 04/24/2023  
Data Release Frequency: Quarterly

## ***Lists of Federal CERCLA sites with NFRAP***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

# 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: 01/25/2023  | Source: EPA                            |
| Date Data Arrived at EDR: 02/02/2023    | Telephone: 800-424-9346                |
| Date Made Active in Reports: 02/28/2023 | Last EDR Contact: 03/01/2023           |
| Number of Days to Update: 26            | Next Scheduled EDR Contact: 04/24/2023 |
|   | Data Release Frequency: Quarterly      |

## ***Lists of Federal RCRA facilities undergoing Corrective Action***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

|   |  |
|---|--|
| Date of Government Version: 03/06/2023  | Source: EPA                            |
| Date Data Arrived at EDR: 03/09/2023    | Telephone: 800-424-9346                |
| Date Made Active in Reports: 03/20/2023 | Last EDR Contact: 03/09/2023           |
| Number of Days to Update: 11            | Next Scheduled EDR Contact: 07/03/2023 |
|   | Data Release Frequency: Quarterly      |

## ***Lists of Federal RCRA TSD facilities***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

|   |   |
|---|---|
| Date of Government Version: 03/06/2023  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 03/09/2023    | Telephone: (415) 495-8895               |
| Date Made Active in Reports: 03/20/2023 | Last EDR Contact: 03/09/2023            |
| Number of Days to Update: 11            | Next Scheduled EDR Contact: 07/03/2023  |
|   | Data Release Frequency: Quarterly       |

## ***Lists of Federal RCRA generators***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

|   |   |
|---|---|
| Date of Government Version: 03/06/2023  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 03/09/2023    | Telephone: (415) 495-8895               |
| Date Made Active in Reports: 03/20/2023 | Last EDR Contact: 03/09/2023            |
| Number of Days to Update: 11            | Next Scheduled EDR Contact: 07/03/2023  |
|   | 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: 03/06/2023  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 03/09/2023    | Telephone: (415) 495-8895               |
| Date Made Active in Reports: 03/20/2023 | Last EDR Contact: 03/09/2023            |
| Number of Days to Update: 11            | Next Scheduled EDR Contact: 07/03/2023  |
|   | Data Release Frequency: Quarterly       |

## RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

|   |   |
|---|---|
| Date of Government Version: 03/06/2023  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 03/09/2023    | Telephone: (415) 495-8895               |
| Date Made Active in Reports: 03/20/2023 | Last EDR Contact: 03/09/2023            |
| Number of Days to Update: 11            | Next Scheduled EDR Contact: 07/03/2023  |
|   | Data Release Frequency: Quarterly       |

## ***Federal institutional controls / engineering controls registries***

### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

|   |  |
|---|--|
| Date of Government Version: 11/02/2022  | Source: Department of the Navy         |
| Date Data Arrived at EDR: 11/08/2022    | Telephone: 843-820-7326                |
| Date Made Active in Reports: 01/10/2023 | Last EDR Contact: 02/03/2023           |
| Number of Days to Update: 63            | Next Scheduled EDR Contact: 05/22/2023 |
|   | Data Release Frequency: Varies         |

### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

|   |   |
|---|---|
| Date of Government Version: 10/27/2022  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 11/16/2022    | Telephone: 703-603-0695                 |
| Date Made Active in Reports: 02/09/2023 | Last EDR Contact: 02/21/2023            |
| Number of Days to Update: 85            | Next Scheduled EDR Contact: 06/05/2023  |
|   | Data Release Frequency: Varies          |

### US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

|   |   |
|---|---|
| Date of Government Version: 10/27/2022  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 11/16/2022    | Telephone: 703-603-0695                 |
| Date Made Active in Reports: 02/09/2023 | Last EDR Contact: 02/21/2023            |
| Number of Days to Update: 85            | Next Scheduled EDR Contact: 06/05/2023  |
|   | 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: 12/12/2022

Source: National Response Center, United States Coast Guard

Date Data Arrived at EDR: 12/14/2022

Telephone: 202-267-2180

Date Made Active in Reports: 12/19/2022

Last EDR Contact: 03/21/2023

Number of Days to Update: 5

Next Scheduled EDR Contact: 07/03/2023

Data Release Frequency: Quarterly

## ***Lists of state- and tribal (Superfund) equivalent sites***

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/24/2022

Source: Department of Toxic Substances Control

Date Data Arrived at EDR: 10/24/2022

Telephone: 916-323-3400

Date Made Active in Reports: 01/12/2023

Last EDR Contact: 01/24/2023

Number of Days to Update: 80

Next Scheduled EDR Contact: 05/08/2023

Data Release Frequency: Quarterly

## ***Lists of state- and tribal hazardous waste facilities***

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database 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: 10/24/2022

Source: Department of Toxic Substances Control

Date Data Arrived at EDR: 10/24/2022

Telephone: 916-323-3400

Date Made Active in Reports: 01/12/2023

Last EDR Contact: 01/24/2023

Number of Days to Update: 80

Next Scheduled EDR Contact: 05/08/2023

Data Release Frequency: Quarterly

## ***Lists of state and tribal landfills and solid waste disposal facilities***

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an 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: 11/03/2022

Source: Department of Resources Recycling and Recovery

Date Data Arrived at EDR: 11/03/2022

Telephone: 916-341-6320

Date Made Active in Reports: 01/25/2023

Last EDR Contact: 02/07/2023

Number of Days to Update: 83

Next Scheduled EDR Contact: 05/22/2023

Data Release Frequency: Quarterly

## ***Lists of state and tribal leaking storage tanks***

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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 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                                   |

## 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   |

## 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: 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/02/2022  
Date Data Arrived at EDR: 12/02/2022  
Date Made Active in Reports: 02/22/2023  
Number of Days to Update: 82

Source: State Water Resources Control Board  
Telephone: see region list  
Last EDR Contact: 03/07/2023  
Next Scheduled EDR Contact: 06/19/2023  
Data Release Frequency: Quarterly

## LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004  
Date Data Arrived at EDR: 10/20/2004  
Date Made Active in Reports: 11/19/2004  
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)  
Telephone: 510-622-2433  
Last EDR Contact: 09/19/2011  
Next Scheduled EDR Contact: 01/02/2012  
Data Release Frequency: No Update Planned

## LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001  
Date Data Arrived at EDR: 02/28/2001  
Date Made Active in Reports: 03/29/2001  
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)  
Telephone: 707-570-3769  
Last EDR Contact: 08/01/2011  
Next Scheduled EDR Contact: 11/14/2011  
Data Release Frequency: No Update Planned

## LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005  
Date Data Arrived at EDR: 06/07/2005  
Date Made Active in Reports: 06/29/2005  
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)  
Telephone: 760-241-7365  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: No Update Planned

## LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008  
Date Data Arrived at EDR: 07/22/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)  
Telephone: 916-464-4834  
Last EDR Contact: 07/01/2011  
Next Scheduled EDR Contact: 10/17/2011  
Data Release Frequency: No Update Planned

## INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/19/2022  
Date Data Arrived at EDR: 12/06/2022  
Date Made Active in Reports: 03/03/2023  
Number of Days to Update: 87

Source: EPA Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/26/2022  
Date Data Arrived at EDR: 12/06/2022  
Date Made Active in Reports: 03/03/2023  
Number of Days to Update: 87

Source: EPA Region 4  
Telephone: 404-562-8677  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Iowa, Kansas, and Nebraska

|   |  |
|---|--|
| Date of Government Version: 10/14/2022  | Source: EPA Region 7                   |
| Date Data Arrived at EDR: 12/06/2022    | Telephone: 913-551-7003                |
| Date Made Active in Reports: 03/03/2023 | Last EDR Contact: 01/17/2023           |
| Number of Days to Update: 87            | Next Scheduled EDR Contact: 05/01/2023 |
|   | Data Release Frequency: Varies         |

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

|   |  |
|---|--|
| Date of Government Version: 11/23/2022  | Source: EPA Region 8                   |
| Date Data Arrived at EDR: 12/06/2022    | Telephone: 303-312-6271                |
| Date Made Active in Reports: 03/03/2023 | Last EDR Contact: 01/17/2023           |
| Number of Days to Update: 87            | Next Scheduled EDR Contact: 05/01/2023 |
|   | Data Release Frequency: Varies         |

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

|   |   |
|---|---|
| Date of Government Version: 11/23/2022  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 12/06/2022    | Telephone: 415-972-3372                 |
| Date Made Active in Reports: 03/03/2023 | Last EDR Contact: 01/17/2023            |
| Number of Days to Update: 87            | Next Scheduled EDR Contact: 05/01/2023  |
|   | Data Release Frequency: Varies          |

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land  
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

|   |  |
|---|--|
| Date of Government Version: 10/14/2022  | Source: EPA, Region 5                  |
| Date Data Arrived at EDR: 12/06/2022    | Telephone: 312-886-7439                |
| Date Made Active in Reports: 03/03/2023 | Last EDR Contact: 01/17/2023           |
| Number of Days to Update: 87            | Next Scheduled EDR Contact: 05/01/2023 |
|   | Data Release Frequency: Varies         |

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in New Mexico and Oklahoma.

|   |  |
|---|--|
| Date of Government Version: 11/23/2022  | Source: EPA Region 6                   |
| Date Data Arrived at EDR: 12/06/2022    | Telephone: 214-665-6597                |
| Date Made Active in Reports: 03/03/2023 | Last EDR Contact: 01/17/2023           |
| Number of Days to Update: 87            | Next Scheduled EDR Contact: 05/01/2023 |
|   | Data Release Frequency: Varies         |

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

|   |  |
|---|--|
| Date of Government Version: 04/20/2022  | Source: EPA Region 10                  |
| Date Data Arrived at EDR: 06/13/2022    | Telephone: 206-553-2857                |
| Date Made Active in Reports: 08/16/2022 | Last EDR Contact: 01/17/2023           |
| Number of Days to Update: 64            | Next Scheduled EDR Contact: 05/01/2023 |
|   | Data Release Frequency: Varies         |

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

|   |   |
|---|---|
| Date of Government Version: 12/02/2022  | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 12/02/2022    | Telephone: 866-480-1028                     |
| Date Made Active in Reports: 02/22/2023 | Last EDR Contact: 03/07/2023                |
| Number of Days to Update: 82            | Next Scheduled EDR Contact: 06/19/2023      |
|   | Data Release Frequency: Varies              |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003  
Date Data Arrived at EDR: 04/07/2003  
Date Made Active in Reports: 04/25/2003  
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)  
Telephone: 707-576-2220  
Last EDR Contact: 08/01/2011  
Next Scheduled EDR Contact: 11/14/2011  
Data Release Frequency: No Update Planned

## SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004  
Date Data Arrived at EDR: 10/20/2004  
Date Made Active in Reports: 11/19/2004  
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)  
Telephone: 510-286-0457  
Last EDR Contact: 09/19/2011  
Next Scheduled EDR Contact: 01/02/2012  
Data Release Frequency: No Update Planned

## SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006  
Date Data Arrived at EDR: 05/18/2006  
Date Made Active in Reports: 06/15/2006  
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)  
Telephone: 805-549-3147  
Last EDR Contact: 07/18/2011  
Next Scheduled EDR Contact: 10/31/2011  
Data Release Frequency: No Update Planned

## SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004  
Date Data Arrived at EDR: 11/18/2004  
Date Made Active in Reports: 01/04/2005  
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)  
Telephone: 213-576-6600  
Last EDR Contact: 07/01/2011  
Next Scheduled EDR Contact: 10/17/2011  
Data Release Frequency: No Update Planned

## SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005  
Date Data Arrived at EDR: 04/05/2005  
Date Made Active in Reports: 04/21/2005  
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)  
Telephone: 916-464-3291  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: No Update Planned

## SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005  
Date Data Arrived at EDR: 05/25/2005  
Date Made Active in Reports: 06/16/2005  
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch  
Telephone: 619-241-6583  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004  
Date Data Arrived at EDR: 09/07/2004  
Date Made Active in Reports: 10/12/2004  
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region  
Telephone: 530-542-5574  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

## SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004  
Date Data Arrived at EDR: 11/29/2004  
Date Made Active in Reports: 01/04/2005  
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region  
Telephone: 760-346-7491  
Last EDR Contact: 08/01/2011  
Next Scheduled EDR Contact: 11/14/2011  
Data Release Frequency: No Update Planned

## SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008  
Date Data Arrived at EDR: 04/03/2008  
Date Made Active in Reports: 04/14/2008  
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)  
Telephone: 951-782-3298  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: No Update Planned

## SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007  
Date Data Arrived at EDR: 09/11/2007  
Date Made Active in Reports: 09/28/2007  
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)  
Telephone: 858-467-2980  
Last EDR Contact: 08/08/2011  
Next Scheduled EDR Contact: 11/21/2011  
Data Release Frequency: No Update Planned

## ***Lists of state and tribal registered storage tanks***

### FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021  
Date Data Arrived at EDR: 11/05/2021  
Date Made Active in Reports: 02/01/2022  
Number of Days to Update: 88

Source: FEMA  
Telephone: 202-646-5797  
Last EDR Contact: 12/28/2022  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

### MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 12/02/2022  
Date Data Arrived at EDR: 12/02/2022  
Date Made Active in Reports: 02/21/2023  
Number of Days to Update: 81

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 03/07/2023  
Next Scheduled EDR Contact: 06/19/2023  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

|   |   |
|---|---|
| Date of Government Version: 11/28/2022  | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 12/02/2022    | Telephone: 916-327-7844                     |
| Date Made Active in Reports: 02/23/2023 | Last EDR Contact: 03/07/2023                |
| Number of Days to Update: 83            | Next Scheduled EDR Contact: 06/19/2023      |
|   | Data Release Frequency: Varies              |

## UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

|   |  |
|---|--|
| Date of Government Version: 12/02/2022  | Source: SWRCB                          |
| Date Data Arrived at EDR: 12/02/2022    | Telephone: 916-341-5851                |
| Date Made Active in Reports: 02/22/2023 | Last EDR Contact: 03/07/2023           |
| Number of Days to Update: 82            | Next Scheduled EDR Contact: 06/19/2023 |
|   | Data Release Frequency: Semi-Annually  |

## AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

|   |  |
|---|--|
| Date of Government Version: 07/06/2016  | 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: 03/09/2023                       |
| Number of Days to Update: 69            | Next Scheduled EDR Contact: 06/26/2023             |
|   | Data Release Frequency: Varies                     |

## INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

|   |  |
|---|--|
| Date of Government Version: 11/23/2022  | Source: EPA Region 6                   |
| Date Data Arrived at EDR: 12/06/2022    | Telephone: 214-665-7591                |
| Date Made Active in Reports: 03/03/2023 | Last EDR Contact: 01/17/2023           |
| Number of Days to Update: 87            | Next Scheduled EDR Contact: 05/01/2023 |
|   | Data Release Frequency: Varies         |

## INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

|   |  |
|---|--|
| Date of Government Version: 10/14/2022  | Source: EPA Region 5                   |
| Date Data Arrived at EDR: 12/06/2022    | Telephone: 312-886-6136                |
| Date Made Active in Reports: 03/03/2023 | Last EDR Contact: 01/17/2023           |
| Number of Days to Update: 87            | Next Scheduled EDR Contact: 05/01/2023 |
|   | Data Release Frequency: Varies         |

## INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

|   |  |
|---|--|
| Date of Government Version: 11/23/2022  | Source: EPA Region 4                   |
| Date Data Arrived at EDR: 12/06/2022    | Telephone: 404-562-9424                |
| Date Made Active in Reports: 03/03/2023 | Last EDR Contact: 01/17/2023           |
| Number of Days to Update: 87            | Next Scheduled EDR Contact: 05/01/2023 |
|   | Data Release Frequency: Varies         |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

|   |  |
|---|--|
| Date of Government Version: 10/19/2022  | Source: EPA, Region 1                  |
| Date Data Arrived at EDR: 12/06/2022    | Telephone: 617-918-1313                |
| Date Made Active in Reports: 03/03/2023 | Last EDR Contact: 01/17/2023           |
| Number of Days to Update: 87            | Next Scheduled EDR Contact: 05/01/2023 |
|   | Data Release Frequency: Varies         |

## INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

|   |  |
|---|--|
| Date of Government Version: 11/23/2022  | Source: EPA Region 9                   |
| Date Data Arrived at EDR: 12/06/2022    | Telephone: 415-972-3368                |
| Date Made Active in Reports: 03/03/2023 | Last EDR Contact: 01/17/2023           |
| Number of Days to Update: 87            | Next Scheduled EDR Contact: 05/01/2023 |
|   | Data Release Frequency: Varies         |

## INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

|   |  |
|---|--|
| Date of Government Version: 11/23/2022  | Source: EPA Region 8                   |
| Date Data Arrived at EDR: 12/06/2022    | Telephone: 303-312-6137                |
| Date Made Active in Reports: 03/03/2023 | Last EDR Contact: 01/17/2023           |
| Number of Days to Update: 87            | Next Scheduled EDR Contact: 05/01/2023 |
|   | Data Release Frequency: Varies         |

## INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

|   |  |
|---|--|
| Date of Government Version: 10/14/2022  | Source: EPA Region 7                   |
| Date Data Arrived at EDR: 12/06/2022    | Telephone: 913-551-7003                |
| Date Made Active in Reports: 03/03/2023 | Last EDR Contact: 01/17/2023           |
| Number of Days to Update: 87            | Next Scheduled EDR Contact: 05/01/2023 |
|   | Data Release Frequency: Varies         |

## INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

|   |  |
|---|--|
| Date of Government Version: 04/20/2022  | Source: EPA Region 10                  |
| Date Data Arrived at EDR: 06/13/2022    | Telephone: 206-553-2857                |
| Date Made Active in Reports: 08/16/2022 | Last EDR Contact: 01/17/2023           |
| Number of Days to Update: 64            | Next Scheduled EDR Contact: 05/01/2023 |
|   | Data Release Frequency: Varies         |

### ***Lists of state and tribal voluntary cleanup sites***

## INDIAN VCP R7: Voluntary Cleanup Priority 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: 07/08/2021           |
| Number of Days to Update: 27            | Next Scheduled EDR Contact: 07/20/2009 |
|   | Data Release Frequency: Varies         |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/24/2022  
Date Data Arrived at EDR: 10/24/2022  
Date Made Active in Reports: 01/12/2023  
Number of Days to Update: 80

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 01/24/2023  
Next Scheduled EDR Contact: 05/08/2023  
Data Release Frequency: Quarterly

## INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015  
Date Data Arrived at EDR: 09/29/2015  
Date Made Active in Reports: 02/18/2016  
Number of Days to Update: 142

Source: EPA, Region 1  
Telephone: 617-918-1102  
Last EDR Contact: 03/17/2023  
Next Scheduled EDR Contact: 07/03/2023  
Data Release Frequency: Varies

### ***Lists of state and tribal brownfield 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: 12/14/2022  
Date Data Arrived at EDR: 12/14/2022  
Date Made Active in Reports: 03/07/2023  
Number of Days to Update: 83

Source: State Water Resources Control Board  
Telephone: 916-323-7905  
Last EDR Contact: 03/21/2023  
Next Scheduled EDR Contact: 07/03/2023  
Data Release Frequency: Quarterly

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

##### US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022  
Date Data Arrived at EDR: 03/10/2022  
Date Made Active in Reports: 03/10/2022  
Number of Days to Update: 0

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 03/14/2023  
Next Scheduled EDR Contact: 06/26/2023  
Data Release Frequency: Semi-Annually

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

##### WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2000  
Date Data Arrived at EDR: 04/10/2000  
Date Made Active in Reports: 05/10/2000  
Number of Days to Update: 30

Source: State Water Resources Control Board  
Telephone: 916-227-4448  
Last EDR Contact: 01/20/2023  
Next Scheduled EDR Contact: 05/08/2023  
Data Release Frequency: No Update Planned

## SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 12/02/2022  
Date Data Arrived at EDR: 12/02/2022  
Date Made Active in Reports: 02/22/2023  
Number of Days to Update: 82

Source: Department of Conservation  
Telephone: 916-323-3836  
Last EDR Contact: 03/07/2023  
Next Scheduled EDR Contact: 06/19/2023  
Data Release Frequency: Quarterly

## HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 11/16/2022  
Date Data Arrived at EDR: 11/22/2022  
Date Made Active in Reports: 02/13/2023  
Number of Days to Update: 83

Source: Integrated Waste Management Board  
Telephone: 916-341-6422  
Last EDR Contact: 02/15/2023  
Next Scheduled EDR Contact: 05/22/2023  
Data Release Frequency: Varies

## INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 01/20/2023  
Next Scheduled EDR Contact: 05/08/2023  
Data Release Frequency: Varies

## ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: No Update Planned

## IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014  
Date Data Arrived at EDR: 08/06/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service  
Telephone: 301-443-1452  
Last EDR Contact: 01/27/2023  
Next Scheduled EDR Contact: 05/08/2023  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Local Lists of Hazardous waste / Contaminated Sites

### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

|   |   |
|---|---|
| Date of Government Version: 01/06/2023  | Source: Drug Enforcement Administration   |
| Date Data Arrived at EDR: 02/02/2023    | Telephone: 202-307-1000                   |
| Date Made Active in Reports: 02/10/2023 | Last EDR Contact: 02/02/2023              |
| Number of Days to Update: 8             | Next Scheduled EDR Contact: 06/05/2023    |
|   | Data Release Frequency: No Update Planned |

### HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

|   |   |
|---|---|
| Date of Government Version: 08/08/2005  | 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: 10/24/2022  | Source: Department of Toxic Substances Control |
| Date Data Arrived at EDR: 10/24/2022    | Telephone: 916-323-3400                        |
| Date Made Active in Reports: 01/12/2023 | Last EDR Contact: 01/24/2023                   |
| Number of Days to Update: 80            | Next Scheduled EDR Contact: 05/08/2023         |
|   | Data Release Frequency: Quarterly              |

### CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

|   |  |
|---|--|
| Date of Government Version: 12/31/2020  | Source: Department of Toxic Substances Control |
| Date Data Arrived at EDR: 11/30/2022    | Telephone: 916-255-6504                        |
| Date Made Active in Reports: 02/09/2023 | Last EDR Contact: 03/22/2023                   |
| Number of Days to Update: 71            | Next Scheduled EDR Contact: 05/15/2023         |
|   | Data Release Frequency: Varies                 |

### TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

|   |   |
|---|---|
| Date of Government Version: 07/01/1995  | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 08/30/1995    | Telephone: 916-227-4364                     |
| Date Made Active in Reports: 09/26/1995 | Last EDR Contact: 01/26/2009                |
| Number of Days to Update: 27            | Next Scheduled EDR Contact: 04/27/2009      |
|   | Data Release Frequency: No Update Planned   |

### CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/05/2023  
Date Data Arrived at EDR: 01/06/2023  
Date Made Active in Reports: 01/11/2023  
Number of Days to Update: 5

Source: CalEPA  
Telephone: 916-323-2514  
Last EDR Contact: 01/06/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Quarterly

## US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 01/06/2023  
Date Data Arrived at EDR: 02/02/2023  
Date Made Active in Reports: 02/10/2023  
Number of Days to Update: 8

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 02/02/2023  
Next Scheduled EDR Contact: 06/05/2023  
Data Release Frequency: Quarterly

## Local Lists of Registered Storage Tanks

### SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994  
Date Data Arrived at EDR: 07/07/2005  
Date Made Active in Reports: 08/11/2005  
Number of Days to Update: 35

Source: State Water Resources Control Board  
Telephone: N/A  
Last EDR Contact: 06/03/2005  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990  
Date Data Arrived at EDR: 01/25/1991  
Date Made Active in Reports: 02/12/1991  
Number of Days to Update: 18

Source: State Water Resources Control Board  
Telephone: 916-341-5851  
Last EDR Contact: 07/26/2001  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 11/03/2022  
Date Data Arrived at EDR: 11/07/2022  
Date Made Active in Reports: 01/24/2023  
Number of Days to Update: 78

Source: San Francisco County Department of Public Health  
Telephone: 415-252-3896  
Last EDR Contact: 01/27/2023  
Next Scheduled EDR Contact: 05/15/2023  
Data Release Frequency: Varies

### CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994  
Date Data Arrived at EDR: 09/05/1995  
Date Made Active in Reports: 09/29/1995  
Number of Days to Update: 24

Source: California Environmental Protection Agency  
Telephone: 916-341-5851  
Last EDR Contact: 12/28/1998  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

|   |  |
|---|--|
| Date of Government Version: 01/06/2023  | Source: California Environmental Protection Agency |
| Date Data Arrived at EDR: 01/06/2023    | Telephone: 916-323-2514                            |
| Date Made Active in Reports: 01/11/2023 | Last EDR Contact: 10/17/2022                       |
| Number of Days to Update: 5             | Next Scheduled EDR Contact: 05/01/2023             |
|   | 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: 08/23/2022  | Source: Department of Toxic Substances Control |
| Date Data Arrived at EDR: 08/24/2022    | Telephone: 916-323-3400                        |
| Date Made Active in Reports: 11/14/2022 | Last EDR Contact: 02/23/2023                   |
| Number of Days to Update: 82            | Next Scheduled EDR Contact: 06/12/2023         |
|   | Data Release Frequency: Varies                 |

### LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

|   |   |
|---|---|
| Date of Government Version: 01/25/2023  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 02/02/2023    | Telephone: 202-564-6023                 |
| Date Made Active in Reports: 02/28/2023 | Last EDR Contact: 03/01/2023            |
| Number of Days to Update: 26            | Next Scheduled EDR Contact: 04/10/2023  |
|   | Data Release Frequency: Semi-Annually   |

### DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

|   |  |
|---|--|
| Date of Government Version: 11/28/2022  | Source: DTSC and SWRCB                 |
| Date Data Arrived at EDR: 11/29/2022    | Telephone: 916-323-3400                |
| Date Made Active in Reports: 02/13/2023 | Last EDR Contact: 02/28/2023           |
| Number of Days to Update: 76            | Next Scheduled EDR Contact: 06/12/2023 |
|   | Data Release Frequency: Semi-Annually  |

## Records of Emergency Release Reports

### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

|   |   |
|---|---|
| Date of Government Version: 12/13/2022  | Source: U.S. Department of Transportation |
| Date Data Arrived at EDR: 12/14/2022    | Telephone: 202-366-4555                   |
| Date Made Active in Reports: 03/10/2023 | Last EDR Contact: 03/21/2023              |
| Number of Days to Update: 86            | Next Scheduled EDR Contact: 07/03/2023    |
|   | Data Release Frequency: Quarterly         |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

|   |  |
|---|--|
| Date of Government Version: 08/02/2022  | Source: Office of Emergency Services   |
| Date Data Arrived at EDR: 10/17/2022    | Telephone: 916-845-8400                |
| Date Made Active in Reports: 01/04/2023 | Last EDR Contact: 01/20/2023           |
| Number of Days to Update: 79            | Next Scheduled EDR Contact: 05/01/2023 |
|   | Data Release Frequency: Semi-Annually  |

## LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

|   |   |
|---|---|
| Date of Government Version: 12/02/2022  | Source: State Water Quality Control Board |
| Date Data Arrived at EDR: 12/02/2022    | Telephone: 866-480-1028                   |
| Date Made Active in Reports: 02/21/2023 | Last EDR Contact: 03/07/2023              |
| Number of Days to Update: 81            | Next Scheduled EDR Contact: 06/19/2023    |
|   | Data Release Frequency: Quarterly         |

## MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

|   |   |
|---|---|
| Date of Government Version: 12/02/2022  | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 12/02/2022    | Telephone: 866-480-1028                     |
| Date Made Active in Reports: 02/21/2023 | Last EDR Contact: 03/07/2023                |
| Number of Days to Update: 81            | Next Scheduled EDR Contact: 06/19/2023      |
|   | Data Release Frequency: Quarterly           |

## SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

|   |   |
|---|---|
| Date of Government Version: 06/06/2012  | 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: 03/06/2023  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 03/09/2023    | Telephone: (415) 495-8895               |
| Date Made Active in Reports: 03/20/2023 | Last EDR Contact: 03/09/2023            |
| Number of Days to Update: 11            | Next Scheduled EDR Contact: 07/03/2023  |
|   | Data Release Frequency: Quarterly       |

### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/01/2022  
Date Data Arrived at EDR: 11/10/2022  
Date Made Active in Reports: 02/09/2023  
Number of Days to Update: 91

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 02/14/2023  
Next Scheduled EDR Contact: 05/29/2023  
Data Release Frequency: Varies

## DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021  
Date Data Arrived at EDR: 07/13/2021  
Date Made Active in Reports: 03/09/2022  
Number of Days to Update: 239

Source: USGS  
Telephone: 888-275-8747  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 04/24/2023  
Data Release Frequency: Varies

## FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018  
Date Data Arrived at EDR: 04/11/2018  
Date Made Active in Reports: 11/06/2019  
Number of Days to Update: 574

Source: U.S. Geological Survey  
Telephone: 888-275-8747  
Last EDR Contact: 01/03/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: N/A

## SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021  
Date Data Arrived at EDR: 02/03/2023  
Date Made Active in Reports: 02/10/2023  
Number of Days to Update: 7

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 02/02/2023  
Next Scheduled EDR Contact: 05/22/2023  
Data Release Frequency: Varies

## US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 12/13/2022  
Date Data Arrived at EDR: 12/14/2022  
Date Made Active in Reports: 03/10/2023  
Number of Days to Update: 86

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 03/21/2023  
Next Scheduled EDR Contact: 07/03/2023  
Data Release Frequency: Quarterly

## EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/30/2013  
Date Data Arrived at EDR: 03/21/2014  
Date Made Active in Reports: 06/17/2014  
Number of Days to Update: 88

Source: Environmental Protection Agency  
Telephone: 617-520-3000  
Last EDR Contact: 01/30/2023  
Next Scheduled EDR Contact: 05/15/2023  
Data Release Frequency: Quarterly

## 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017  
Date Data Arrived at EDR: 05/08/2018  
Date Made Active in Reports: 07/20/2018  
Number of Days to Update: 73

Source: Environmental Protection Agency  
Telephone: 703-308-4044  
Last EDR Contact: 02/03/2023  
Next Scheduled EDR Contact: 05/15/2023  
Data Release Frequency: Varies

## TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016  
Date Data Arrived at EDR: 06/17/2020  
Date Made Active in Reports: 09/10/2020  
Number of Days to Update: 85

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 03/13/2023  
Next Scheduled EDR Contact: 06/26/2023  
Data Release Frequency: Every 4 Years

## TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2021  
Date Data Arrived at EDR: 11/01/2022  
Date Made Active in Reports: 02/09/2023  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 02/16/2023  
Next Scheduled EDR Contact: 05/29/2023  
Data Release Frequency: Annually

## SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 10/17/2022  
Date Data Arrived at EDR: 10/18/2022  
Date Made Active in Reports: 01/10/2023  
Number of Days to Update: 84

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 01/18/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Annually

## ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/25/2023  
Date Data Arrived at EDR: 02/02/2023  
Date Made Active in Reports: 02/28/2023  
Number of Days to Update: 26

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 03/01/2023  
Next Scheduled EDR Contact: 06/12/2023  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

|   |   |
|---|---|
| Date of Government Version: 04/27/2022  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 05/04/2022    | Telephone: 202-564-8600                 |
| Date Made Active in Reports: 05/10/2022 | Last EDR Contact: 01/17/2023            |
| Number of Days to Update: 6             | Next Scheduled EDR Contact: 05/01/2023  |
|   | Data Release Frequency: Varies          |

## RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

|   |   |
|---|---|
| Date of Government Version: 04/17/1995  | Source: EPA                               |
| Date Data Arrived at EDR: 07/03/1995    | Telephone: 202-564-4104                   |
| Date Made Active in Reports: 08/07/1995 | Last EDR Contact: 06/02/2008              |
| Number of Days to Update: 35            | Next Scheduled EDR Contact: 09/01/2008    |
|   | Data Release Frequency: No Update Planned |

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

|   |  |
|---|--|
| Date of Government Version: 10/27/2022  | Source: EPA                            |
| Date Data Arrived at EDR: 11/01/2022    | Telephone: 202-564-6023                |
| Date Made Active in Reports: 11/15/2022 | Last EDR Contact: 03/01/2023           |
| Number of Days to Update: 14            | Next Scheduled EDR Contact: 05/15/2023 |
|   | Data Release Frequency: Quarterly      |

## PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

|   |  |
|---|--|
| Date of Government Version: 01/20/2022  | Source: EPA                            |
| Date Data Arrived at EDR: 01/20/2022    | Telephone: 202-566-0500                |
| Date Made Active in Reports: 03/25/2022 | Last EDR Contact: 01/04/2023           |
| Number of Days to Update: 64            | Next Scheduled EDR Contact: 04/17/2023 |
|   | Data Release Frequency: Annually       |

## ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

|   |   |
|---|---|
| Date of Government Version: 11/18/2016  | 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: 12/28/2022            |
| Number of Days to Update: 79            | Next Scheduled EDR Contact: 04/17/2023  |
|   | Data Release Frequency: Quarterly       |

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 08/18/2017  
Next Scheduled EDR Contact: 12/04/2017  
Data Release Frequency: No Update Planned

### FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 08/18/2017  
Next Scheduled EDR Contact: 12/04/2017  
Data Release Frequency: No Update Planned

### MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/26/2022  
Date Data Arrived at EDR: 11/22/2022  
Date Made Active in Reports: 12/05/2022  
Number of Days to Update: 13

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Quarterly

### COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020  
Date Data Arrived at EDR: 11/30/2021  
Date Made Active in Reports: 02/22/2022  
Number of Days to Update: 84

Source: Department of Energy  
Telephone: 202-586-8719  
Last EDR Contact: 03/03/2023  
Next Scheduled EDR Contact: 06/12/2023  
Data Release Frequency: Varies

### COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017  
Date Data Arrived at EDR: 03/05/2019  
Date Made Active in Reports: 11/11/2019  
Number of Days to Update: 251

Source: Environmental Protection Agency  
Telephone: N/A  
Last EDR Contact: 02/27/2023  
Next Scheduled EDR Contact: 06/12/2023  
Data Release Frequency: Varies

### PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019  
Date Data Arrived at EDR: 11/06/2019  
Date Made Active in Reports: 02/10/2020  
Number of Days to Update: 96

Source: Environmental Protection Agency  
Telephone: 202-566-0517  
Last EDR Contact: 02/03/2023  
Next Scheduled EDR Contact: 05/15/2023  
Data Release Frequency: Varies

### RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2019  
Date Data Arrived at EDR: 07/01/2019  
Date Made Active in Reports: 09/23/2019  
Number of Days to Update: 84

Source: Environmental Protection Agency  
Telephone: 202-343-9775  
Last EDR Contact: 12/20/2022  
Next Scheduled EDR Contact: 04/10/2023  
Data Release Frequency: Quarterly

## HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2007  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020  
Date Data Arrived at EDR: 01/28/2020  
Date Made Active in Reports: 04/17/2020  
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 01/24/2023  
Next Scheduled EDR Contact: 05/08/2023  
Data Release Frequency: Quarterly

## CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2022  
Date Data Arrived at EDR: 10/21/2022  
Date Made Active in Reports: 01/10/2023  
Number of Days to Update: 81

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 01/03/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

## BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2021  
Date Data Arrived at EDR: 03/09/2023  
Date Made Active in Reports: 03/20/2023  
Number of Days to Update: 11

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 03/09/2023  
Next Scheduled EDR Contact: 07/03/2023  
Data Release Frequency: Biennially

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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  | Source: USGS                           |
| Date Data Arrived at EDR: 07/14/2015    | Telephone: 202-208-3710                |
| Date Made Active in Reports: 01/10/2017 | Last EDR Contact: 01/06/2023           |
| Number of Days to Update: 546           | Next Scheduled EDR Contact: 04/17/2023 |
|   | Data Release Frequency: Semi-Annually  |

## FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

|   |  |
|---|--|
| Date of Government Version: 07/26/2021  | Source: Department of Energy           |
| Date Data Arrived at EDR: 07/27/2021    | Telephone: 202-586-3559                |
| Date Made Active in Reports: 10/22/2021 | Last EDR Contact: 01/30/2023           |
| Number of Days to Update: 87            | Next Scheduled EDR Contact: 05/15/2023 |
|   | Data Release Frequency: Varies         |

## UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

|   |  |
|---|--|
| Date of Government Version: 08/30/2019  | Source: Department of Energy           |
| Date Data Arrived at EDR: 11/15/2019    | Telephone: 505-845-0011                |
| Date Made Active in Reports: 01/28/2020 | Last EDR Contact: 02/13/2023           |
| Number of Days to Update: 74            | Next Scheduled EDR Contact: 05/29/2023 |
|   | Data Release Frequency: Varies         |

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

|   |   |
|---|---|
| Date of Government Version: 01/25/2023  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 02/02/2023    | Telephone: 703-603-8787                 |
| Date Made Active in Reports: 02/28/2023 | Last EDR Contact: 03/01/2023            |
| Number of Days to Update: 26            | Next Scheduled EDR Contact: 04/10/2023  |
|   | Data Release Frequency: Varies          |

## LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 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  | Source: American Journal of Public Health |
| Date Data Arrived at EDR: 10/27/2010    | Telephone: 703-305-6451                   |
| Date Made Active in Reports: 12/02/2010 | Last EDR Contact: 12/02/2009              |
| Number of Days to Update: 36            | 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 11/07/2022  
Date Data Arrived at EDR: 11/17/2022  
Date Made Active in Reports: 02/10/2023  
Number of Days to Update: 85

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 02/22/2023  
Next Scheduled EDR Contact: 06/05/2023  
Data Release Frequency: Semi-Annually

## MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 11/29/2022  
Date Data Arrived at EDR: 11/30/2022  
Date Made Active in Reports: 12/22/2022  
Number of Days to Update: 22

Source: DOL, Mine Safety & Health Admi  
Telephone: 202-693-9424  
Last EDR Contact: 02/23/2023  
Next Scheduled EDR Contact: 06/12/2023  
Data Release Frequency: Quarterly

## US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020  
Date Data Arrived at EDR: 05/27/2020  
Date Made Active in Reports: 08/13/2020  
Number of Days to Update: 78

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 02/24/2023  
Next Scheduled EDR Contact: 06/05/2023  
Data Release Frequency: Varies

## US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011  
Date Data Arrived at EDR: 06/08/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 97

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 02/24/2023  
Next Scheduled EDR Contact: 06/05/2023  
Data Release Frequency: Varies

## ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/20/2022  
Date Data Arrived at EDR: 12/20/2022  
Date Made Active in Reports: 03/10/2023  
Number of Days to Update: 80

Source: Department of Interior  
Telephone: 202-208-2609  
Last EDR Contact: 03/16/2023  
Next Scheduled EDR Contact: 06/19/2023  
Data Release Frequency: Quarterly

## FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/03/2022  
Date Data Arrived at EDR: 08/25/2022  
Date Made Active in Reports: 10/24/2022  
Number of Days to Update: 60

Source: EPA  
Telephone: (415) 947-8000  
Last EDR Contact: 02/28/2023  
Next Scheduled EDR Contact: 06/12/2023  
Data Release Frequency: Quarterly

## UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 11/09/2021  
Date Data Arrived at EDR: 10/20/2022  
Date Made Active in Reports: 01/10/2023  
Number of Days to Update: 82

Source: Department of Defense  
Telephone: 703-704-1564  
Last EDR Contact: 01/09/2023  
Next Scheduled EDR Contact: 04/24/2023  
Data Release Frequency: Varies

## DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021  
Date Data Arrived at EDR: 05/21/2021  
Date Made Active in Reports: 08/11/2021  
Number of Days to Update: 82

Source: Environmental Protection Agency  
Telephone: 202-564-0527  
Last EDR Contact: 02/24/2023  
Next Scheduled EDR Contact: 06/05/2023  
Data Release Frequency: Varies

## ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/25/2022  
Date Data Arrived at EDR: 09/30/2022  
Date Made Active in Reports: 12/22/2022  
Number of Days to Update: 83

Source: Environmental Protection Agency  
Telephone: 202-564-2280  
Last EDR Contact: 01/04/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Quarterly

## FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/10/2022  
Date Data Arrived at EDR: 11/10/2022  
Date Made Active in Reports: 02/09/2023  
Number of Days to Update: 91

Source: EPA  
Telephone: 800-385-6164  
Last EDR Contact: 02/14/2023  
Next Scheduled EDR Contact: 05/29/2023  
Data Release Frequency: Quarterly

## PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/23/2022  
Date Data Arrived at EDR: 07/08/2022  
Date Made Active in Reports: 11/08/2022  
Number of Days to Update: 123

Source: Environmental Protection Agency  
Telephone: 703-603-8895  
Last EDR Contact: 01/10/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

## PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 02/23/2022  
Date Data Arrived at EDR: 03/31/2022  
Date Made Active in Reports: 11/08/2022  
Number of Days to Update: 222

Source: Environmental Protection Agency  
Telephone: 202-272-0167  
Last EDR Contact: 01/05/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

## PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 01/03/2022  
Date Data Arrived at EDR: 03/31/2022  
Date Made Active in Reports: 11/08/2022  
Number of Days to Update: 222

Source: Environmental Protection Agency  
Telephone: 202-272-0167  
Last EDR Contact: 01/05/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

## PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST\_HANDLING\_INSTR), Non-hazardous waste description (NON\_HAZ\_WASTE\_DESCRIPTION), DOT printed information (DOT\_PRINTED\_INFORMATION), Waste line handling instructions (WASTE\_LINE\_HANDLING\_INSTR), Waste residue comments (WASTE\_RESIDUE\_COMMENTS).

Date of Government Version: 01/03/2022  
Date Data Arrived at EDR: 03/31/2022  
Date Made Active in Reports: 11/08/2022  
Number of Days to Update: 222

Source: Environmental Protection Agency  
Telephone: 202-272-0167  
Last EDR Contact: 01/05/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

## PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020  
Date Data Arrived at EDR: 03/17/2021  
Date Made Active in Reports: 11/08/2022  
Number of Days to Update: 601

Source: Department of Health & Human Services  
Telephone: 202-741-5770  
Last EDR Contact: 01/23/2023  
Next Scheduled EDR Contact: 05/08/2023  
Data Release Frequency: Varies

## PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/03/2022  
Date Data Arrived at EDR: 03/31/2022  
Date Made Active in Reports: 11/08/2022  
Number of Days to Update: 222

Source: Environmental Protection Agency  
Telephone: 202-272-0167  
Last EDR Contact: 01/05/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

## PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits.

Date of Government Version: 01/03/2022  
Date Data Arrived at EDR: 03/31/2022  
Date Made Active in Reports: 11/08/2022  
Number of Days to Update: 222

Source: Environmental Protection Agency  
Telephone: 202-272-0167  
Last EDR Contact: 01/05/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

## PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 01/03/2022  
Date Data Arrived at EDR: 03/31/2022  
Date Made Active in Reports: 11/08/2022  
Number of Days to Update: 222

Source: Environmental Protection Agency  
Telephone: 202-272-0167  
Last EDR Contact: 01/05/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

## PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilities name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 08/22/2018  
Date Data Arrived at EDR: 03/31/2022  
Date Made Active in Reports: 11/08/2022  
Number of Days to Update: 222

Source: Environmental Protection Agency  
Telephone: 202-272-0167  
Last EDR Contact: 01/05/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

## PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration's document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 08/22/2018  
Date Data Arrived at EDR: 10/26/2022  
Date Made Active in Reports: 11/08/2022  
Number of Days to Update: 13

Source: Environmental Protection Agency  
Telephone: 202-272-0167  
Last EDR Contact: 01/05/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

|   |   |
|---|---|
| Date of Government Version: 02/23/2022  | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 03/31/2022    | Telephone: 202-272-0167                 |
| Date Made Active in Reports: 11/08/2022 | Last EDR Contact: 01/05/2023            |
| Number of Days to Update: 222           | Next Scheduled EDR Contact: 04/17/2023  |
|   | Data Release Frequency: Varies          |

## PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

|   |   |
|---|---|
| Date of Government Version: 12/02/2022  | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 12/02/2022    | Telephone: 866-480-1028                     |
| Date Made Active in Reports: 02/23/2023 | Last EDR Contact: 03/07/2023                |
| Number of Days to Update: 83            | Next Scheduled EDR Contact: 06/19/2023      |
|   | Data Release Frequency: Varies              |

## AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

|   |   |
|---|---|
| Date of Government Version: 09/06/2022  | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 09/06/2022    | Telephone: 916-341-5455                     |
| Date Made Active in Reports: 10/26/2022 | Last EDR Contact: 03/07/2023                |
| Number of Days to Update: 50            | Next Scheduled EDR Contact: 06/19/2023      |
|   | Data Release Frequency: Varies              |

## CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

|   |   |
|---|---|
| Date of Government Version: 01/01/1989  | 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: 12/14/2022  | Source: CAL EPA/Office of Emergency Information |
| Date Data Arrived at EDR: 12/14/2022    | Telephone: 916-323-3400                         |
| Date Made Active in Reports: 03/07/2023 | Last EDR Contact: 03/21/2023                    |
| Number of Days to Update: 83            | Next Scheduled EDR Contact: 07/03/2023          |
|   | Data Release Frequency: Quarterly               |

## CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

|   |  |
|---|--|
| Date of Government Version: 12/07/2021  | Source: Livermore-Pleasanton Fire Department |
| Date Data Arrived at EDR: 05/09/2022    | Telephone: 925-454-2361                      |
| Date Made Active in Reports: 05/17/2022 | Last EDR Contact: 02/10/2023                 |
| Number of Days to Update: 8             | Next Scheduled EDR Contact: 05/22/2023       |
|   | Data Release Frequency: Varies               |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing**  
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

|   |   |
|---|---|
| Date of Government Version: 11/14/2022  | Source: Antelope Valley Air Quality Management District |
| Date Data Arrived at EDR: 11/14/2022    | Telephone: 661-723-8070                                 |
| Date Made Active in Reports: 02/01/2023 | Last EDR Contact: 02/23/2023                            |
| Number of Days to Update: 79            | Next Scheduled EDR Contact: 06/12/2023                  |
|   | Data Release Frequency: Varies                          |

**DRYCLEANERS: Cleaner Facilities**

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

|   |   |
|---|---|
| Date of Government Version: 08/27/2021  | Source: Department of Toxic Substance Control |
| Date Data Arrived at EDR: 09/01/2021    | Telephone: 916-327-4498                       |
| Date Made Active in Reports: 11/19/2021 | Last EDR Contact: 01/24/2023                  |
| Number of Days to Update: 79            | Next Scheduled EDR Contact: 06/12/2023        |
|   | Data Release Frequency: Annually              |

**DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing**  
A listing of dry cleaners in the South Coast Air Quality Management District

|   |   |
|---|---|
| Date of Government Version: 11/17/2022  | Source: South Coast Air Quality Management District |
| Date Data Arrived at EDR: 11/30/2022    | Telephone: 909-396-3211                             |
| Date Made Active in Reports: 02/14/2023 | Last EDR Contact: 02/15/2023                        |
| Number of Days to Update: 76            | Next Scheduled EDR Contact: 06/05/2023              |
|   | Data Release Frequency: Varies                      |

**EMI: Emissions Inventory Data**

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

|   |  |
|---|--|
| Date of Government Version: 12/31/2020  | Source: California Air Resources Board |
| Date Data Arrived at EDR: 06/13/2022    | Telephone: 916-322-2990                |
| Date Made Active in Reports: 08/30/2022 | Last EDR Contact: 03/16/2023           |
| Number of Days to Update: 78            | Next Scheduled EDR Contact: 06/26/2023 |
|   | Data Release Frequency: Varies         |

**ENF: Enforcement Action Listing**

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

|   |   |
|---|---|
| Date of Government Version: 10/17/2022  | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 10/19/2022    | Telephone: 916-445-9379                     |
| Date Made Active in Reports: 01/10/2023 | Last EDR Contact: 01/18/2023                |
| Number of Days to Update: 83            | Next Scheduled EDR Contact: 05/01/2023      |
|   | Data Release Frequency: Varies              |

**Financial Assurance 1: Financial Assurance Information Listing**  
Financial Assurance information

|   |  |
|---|--|
| Date of Government Version: 10/12/2022  | Source: Department of Toxic Substances Control |
| Date Data Arrived at EDR: 10/12/2022    | Telephone: 916-255-3628                        |
| Date Made Active in Reports: 12/29/2022 | Last EDR Contact: 01/13/2023                   |
| Number of Days to Update: 78            | Next Scheduled EDR Contact: 05/01/2023         |
|   | Data Release Frequency: Varies                 |

**Financial Assurance 2: Financial Assurance Information Listing**

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/08/2022  
Date Data Arrived at EDR: 11/23/2022  
Date Made Active in Reports: 02/13/2023  
Number of Days to Update: 82

Source: California Integrated Waste Management Board  
Telephone: 916-341-6066  
Last EDR Contact: 02/03/2023  
Next Scheduled EDR Contact: 05/22/2023  
Data Release Frequency: Varies

## ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/10/2022  
Date Data Arrived at EDR: 11/10/2022  
Date Made Active in Reports: 02/01/2023  
Number of Days to Update: 83

Source: Department of Toxic Substances Control  
Telephone: 877-786-9427  
Last EDR Contact: 02/14/2023  
Next Scheduled EDR Contact: 05/29/2023  
Data Release Frequency: Quarterly

## HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001  
Date Data Arrived at EDR: 01/22/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 76

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 01/22/2009  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/10/2022  
Date Data Arrived at EDR: 11/10/2022  
Date Made Active in Reports: 02/01/2023  
Number of Days to Update: 83

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 02/14/2023  
Next Scheduled EDR Contact: 05/29/2023  
Data Release Frequency: Quarterly

## HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 01/03/2023  
Date Data Arrived at EDR: 01/04/2023  
Date Made Active in Reports: 03/21/2023  
Number of Days to Update: 76

Source: Department of Toxic Substances Control  
Telephone: 916-440-7145  
Last EDR Contact: 01/04/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Quarterly

## HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2021  
Date Data Arrived at EDR: 07/05/2022  
Date Made Active in Reports: 09/19/2022  
Number of Days to Update: 76

Source: California Environmental Protection Agency  
Telephone: 916-255-1136  
Last EDR Contact: 01/06/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Annually

# 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: 12/02/2022  | Source: Department of Conservation     |
| Date Data Arrived at EDR: 12/02/2022    | Telephone: 916-322-1080                |
| Date Made Active in Reports: 02/22/2023 | Last EDR Contact: 03/07/2023           |
| Number of Days to Update: 82            | Next Scheduled EDR Contact: 06/19/2023 |
|   | Data Release Frequency: Quarterly      |

## MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

|   |  |
|---|--|
| Date of Government Version: 10/31/2022  | Source: Department of Public Health    |
| Date Data Arrived at EDR: 11/29/2022    | Telephone: 916-558-1784                |
| Date Made Active in Reports: 02/14/2023 | Last EDR Contact: 02/28/2023           |
| Number of Days to Update: 77            | Next Scheduled EDR Contact: 06/12/2023 |
|   | Data Release Frequency: Varies         |

## NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

|   |   |
|---|---|
| Date of Government Version: 11/03/2022  | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 11/03/2022    | Telephone: 916-445-9379                     |
| Date Made Active in Reports: 01/25/2023 | Last EDR Contact: 02/07/2023                |
| Number of Days to Update: 83            | Next Scheduled EDR Contact: 05/22/2023      |
|   | Data Release Frequency: Quarterly           |

## PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

|   |  |
|---|--|
| Date of Government Version: 11/28/2022  | Source: Department of Pesticide Regulation |
| Date Data Arrived at EDR: 11/29/2022    | Telephone: 916-445-4038                    |
| Date Made Active in Reports: 02/14/2023 | Last EDR Contact: 02/28/2023               |
| Number of Days to Update: 77            | Next Scheduled EDR Contact: 06/12/2023     |
|   | Data Release Frequency: Quarterly          |

## PROC: Certified Processors Database

A listing of certified processors.

|   |  |
|---|--|
| Date of Government Version: 12/02/2022  | Source: Department of Conservation     |
| Date Data Arrived at EDR: 12/02/2022    | Telephone: 916-323-3836                |
| Date Made Active in Reports: 02/22/2023 | Last EDR Contact: 03/07/2023           |
| Number of Days to Update: 82            | Next Scheduled EDR Contact: 06/19/2023 |
|   | Data Release Frequency: Quarterly      |

## NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

|   |   |
|---|---|
| Date of Government Version: 12/07/2022  | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 12/07/2022    | Telephone: 916-445-3846                     |
| Date Made Active in Reports: 03/01/2023 | Last EDR Contact: 03/09/2023                |
| Number of Days to Update: 84            | Next Scheduled EDR Contact: 06/26/2023      |
|   | Data Release Frequency: No Update Planned   |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## SAN JOSE HAZMAT: Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

|   |  |
|---|--|
| Date of Government Version: 11/03/2020  | Source: City of San Jose Fire Department |
| Date Data Arrived at EDR: 11/05/2020    | Telephone: 408-535-7694                  |
| Date Made Active in Reports: 01/26/2021 | Last EDR Contact: 01/27/2023             |
| Number of Days to Update: 82            | Next Scheduled EDR Contact: 05/15/2023   |
|   | Data Release Frequency: Annually         |

## UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

|   |  |
|---|--|
| Date of Government Version: 12/02/2022  | Source: Department of Conservation     |
| Date Data Arrived at EDR: 12/02/2022    | Telephone: 916-445-2408                |
| Date Made Active in Reports: 02/22/2023 | Last EDR Contact: 03/07/2023           |
| Number of Days to Update: 82            | Next Scheduled EDR Contact: 06/19/2023 |
|   | Data Release Frequency: Varies         |

## UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

|   |  |
|---|--|
| Date of Government Version: 12/02/2022  | Source: State Water Resource Control Board |
| Date Data Arrived at EDR: 12/02/2022    | Telephone: 866-480-1028                    |
| Date Made Active in Reports: 02/21/2023 | Last EDR Contact: 03/07/2023               |
| Number of Days to Update: 81            | Next Scheduled EDR Contact: 06/19/2023     |
|   | Data Release Frequency: Varies             |

## WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

|   |  |
|---|--|
| Date of Government Version: 02/11/2021  | Source: RWQCB, Central Valley Region   |
| Date Data Arrived at EDR: 07/01/2021    | Telephone: 559-445-5577                |
| Date Made Active in Reports: 09/29/2021 | Last EDR Contact: 01/06/2023           |
| Number of Days to Update: 90            | Next Scheduled EDR Contact: 04/17/2023 |
|   | Data Release Frequency: Varies         |

## WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

|   |   |
|---|---|
| Date of Government Version: 06/19/2007  | 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: 02/13/2023                |
| Number of Days to Update: 9             | Next Scheduled EDR Contact: 05/29/2023      |
|   | Data Release Frequency: No Update Planned   |

## WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

|   |   |
|---|---|
| Date of Government Version: 07/03/2009  | 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: 03/16/2023                    |
| Number of Days to Update: 13            | Next Scheduled EDR Contact: 07/03/2023          |
|   | Data Release Frequency: No Update Planned       |

## MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/02/2022  
Date Data Arrived at EDR: 12/02/2022  
Date Made Active in Reports: 02/21/2023  
Number of Days to Update: 81

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 03/07/2023  
Next Scheduled EDR Contact: 06/19/2023  
Data Release Frequency: Varies

## PROJECT: Project Sites (GEOTRACKER) Projects sites

Date of Government Version: 12/02/2022  
Date Data Arrived at EDR: 12/02/2022  
Date Made Active in Reports: 02/21/2023  
Number of Days to Update: 81

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 03/07/2023  
Next Scheduled EDR Contact: 06/19/2023  
Data Release Frequency: Varies

## WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 12/02/2022  
Date Data Arrived at EDR: 12/02/2022  
Date Made Active in Reports: 02/23/2023  
Number of Days to Update: 83

Source: State Water Resources Control Board  
Telephone: 916-341-5810  
Last EDR Contact: 03/07/2023  
Next Scheduled EDR Contact: 06/19/2023  
Data Release Frequency: Quarterly

## CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 11/28/2022  
Date Data Arrived at EDR: 11/29/2022  
Date Made Active in Reports: 02/13/2023  
Number of Days to Update: 76

Source: State Water Resources Control Board  
Telephone: 866-794-4977  
Last EDR Contact: 02/28/2023  
Next Scheduled EDR Contact: 06/12/2023  
Data Release Frequency: Varies

## CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 01/05/2023  
Date Data Arrived at EDR: 01/06/2023  
Date Made Active in Reports: 01/10/2023  
Number of Days to Update: 4

Source: California Environmental Protection Agency  
Telephone: 916-323-2514  
Last EDR Contact: 01/06/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/02/2022  
Date Data Arrived at EDR: 12/02/2022  
Date Made Active in Reports: 02/21/2023  
Number of Days to Update: 81

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 03/07/2023  
Next Scheduled EDR Contact: 06/19/2023  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/02/2022  
Date Data Arrived at EDR: 12/02/2022  
Date Made Active in Reports: 02/21/2023  
Number of Days to Update: 81

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 03/07/2023  
Next Scheduled EDR Contact: 06/19/2023  
Data Release Frequency: Varies

## PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/02/2022  
Date Data Arrived at EDR: 12/02/2022  
Date Made Active in Reports: 02/21/2023  
Number of Days to Update: 81

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 03/07/2023  
Next Scheduled EDR Contact: 06/19/2023  
Data Release Frequency: Varies

## SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 12/02/2022  
Date Data Arrived at EDR: 12/02/2022  
Date Made Active in Reports: 02/21/2023  
Number of Days to Update: 81

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 03/07/2023  
Next Scheduled EDR Contact: 06/19/2023  
Data Release Frequency: Varies

## WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/02/2022  
Date Data Arrived at EDR: 12/02/2022  
Date Made Active in Reports: 02/21/2023  
Number of Days to Update: 81

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 03/07/2023  
Next Scheduled EDR Contact: 06/19/2023  
Data Release Frequency: Varies

## MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 08/23/2022  
Date Data Arrived at EDR: 11/22/2022  
Date Made Active in Reports: 02/28/2023  
Number of Days to Update: 98

Source: USGS  
Telephone: 703-648-6533  
Last EDR Contact: 02/24/2023  
Next Scheduled EDR Contact: 06/05/2023  
Data Release Frequency: Varies

## HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/05/2022  
Date Data Arrived at EDR: 04/05/2022  
Date Made Active in Reports: 04/26/2022  
Number of Days to Update: 21

Source: Department of Toxic Substances Control  
Telephone: 916-324-2444  
Last EDR Contact: 01/03/2023  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

## PCS ENF: Enforcement data

No description is available for this data

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 02/05/2015  
Date Made Active in Reports: 03/06/2015  
Number of Days to Update: 29

Source: EPA  
Telephone: 202-564-2497  
Last EDR Contact: 12/28/2022  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Varies

## PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011  
Date Data Arrived at EDR: 08/05/2011  
Date Made Active in Reports: 09/29/2011  
Number of Days to Update: 59

Source: EPA, Office of Water  
Telephone: 202-564-2496  
Last EDR Contact: 12/28/2022  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Semi-Annually

## PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014  
Date Data Arrived at EDR: 01/06/2015  
Date Made Active in Reports: 05/06/2015  
Number of Days to Update: 120

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 12/28/2022  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Semi-Annually

## EDR HIGH RISK HISTORICAL RECORDS

### ***EDR Exclusive Records***

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

#### EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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  | Source: EDR, Inc.               |
| Date Data Arrived at EDR: N/A    | Telephone: N/A                  |
| Date Made Active in Reports: N/A | Last EDR Contact: N/A           |
| Number of Days to Update: 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         | Source: Department of Resources Recycling and Recovery |
| Date Data Arrived at EDR: 07/01/2013    | Telephone: N/A   |
| Date Made Active in Reports: 01/13/2014 | Last EDR Contact: 06/01/2012                           |
| Number of Days to Update: 196           | 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         | Source: State Water Resources Control Board |
| Date Data Arrived at EDR: 07/01/2013    | Telephone: N/A                              |
| Date Made Active in Reports: 12/30/2013 | Last EDR Contact: 06/01/2012                |
| Number of Days to Update: 182           | Next Scheduled EDR Contact: N/A             |
|   | Data Release Frequency: Varies              |

## COUNTY RECORDS

### ALAMEDA COUNTY:

#### CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

|   |  |
|---|--|
| Date of Government Version: 01/09/2019  | Source: Alameda County Environmental Health Services |
| Date Data Arrived at EDR: 01/11/2019    | Telephone: 510-567-6700                              |
| Date Made Active in Reports: 03/05/2019 | Last EDR Contact: 12/28/2022                         |
| Number of Days to Update: 53            | Next Scheduled EDR Contact: 04/17/2023               |
|   | Data Release Frequency: Semi-Annually                |

#### UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

|   |  |
|---|--|
| Date of Government Version: 12/28/2022  | Source: Alameda County Environmental Health Services |
| Date Data Arrived at EDR: 12/28/2022    | Telephone: 510-567-6700                              |
| Date Made Active in Reports: 03/17/2023 | Last EDR Contact: 12/28/2022                         |
| Number of Days to Update: 79            | Next Scheduled EDR Contact: 04/17/2023               |
|   | Data Release Frequency: Semi-Annually                |

### AMADOR COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA AMADOR: CUPA Facility List Cupa Facility List

Date of Government Version: 07/22/2022  
Date Data Arrived at EDR: 07/27/2022  
Date Made Active in Reports: 08/01/2022  
Number of Days to Update: 5

Source: Amador County Environmental Health  
Telephone: 209-223-6439  
Last EDR Contact: 01/27/2023  
Next Scheduled EDR Contact: 05/15/2023  
Data Release Frequency: Varies

## BUTTE COUNTY:

### CUPA BUTTE: CUPA Facility Listing Cupa facility list.

Date of Government Version: 04/21/2017  
Date Data Arrived at EDR: 04/25/2017  
Date Made Active in Reports: 08/09/2017  
Number of Days to Update: 106

Source: Public Health Department  
Telephone: 530-538-7149  
Last EDR Contact: 12/28/2022  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: No Update Planned

## CALVERAS COUNTY:

### CUPA CALVERAS: CUPA Facility Listing Cupa Facility Listing

Date of Government Version: 12/13/2022  
Date Data Arrived at EDR: 12/15/2022  
Date Made Active in Reports: 12/21/2022  
Number of Days to Update: 6

Source: Calveras County Environmental Health  
Telephone: 209-754-6399  
Last EDR Contact: 03/16/2023  
Next Scheduled EDR Contact: 07/03/2023  
Data Release Frequency: Quarterly

## COLUSA COUNTY:

### CUPA COLUSA: CUPA Facility List Cupa facility list.

Date of Government Version: 04/06/2020  
Date Data Arrived at EDR: 04/23/2020  
Date Made Active in Reports: 07/10/2020  
Number of Days to Update: 78

Source: Health & Human Services  
Telephone: 530-458-0396  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/15/2023  
Data Release Frequency: Semi-Annually

## CONTRA COSTA COUNTY:

### SL CONTRA COSTA: Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 10/20/2022  
Date Data Arrived at EDR: 10/21/2022  
Date Made Active in Reports: 01/10/2023  
Number of Days to Update: 81

Source: Contra Costa Health Services Department  
Telephone: 925-646-2286  
Last EDR Contact: 01/20/2023  
Next Scheduled EDR Contact: 05/08/2023  
Data Release Frequency: Semi-Annually

## DEL NORTE COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA DEL NORTE: CUPA Facility List Cupa Facility list

Date of Government Version: 05/04/2022  
Date Data Arrived at EDR: 05/06/2022  
Date Made Active in Reports: 07/28/2022  
Number of Days to Update: 83

Source: Del Norte County Environmental Health Division  
Telephone: 707-465-0426  
Last EDR Contact: 02/03/2023  
Next Scheduled EDR Contact: 05/08/2023  
Data Release Frequency: Varies

## EL DORADO COUNTY:

### CUPA EL DORADO: CUPA Facility List CUPA facility list.

Date of Government Version: 08/08/2022  
Date Data Arrived at EDR: 08/09/2022  
Date Made Active in Reports: 09/01/2022  
Number of Days to Update: 23

Source: El Dorado County Environmental Management Department  
Telephone: 530-621-6623  
Last EDR Contact: 01/20/2023  
Next Scheduled EDR Contact: 05/08/2023  
Data Release Frequency: Varies

## FRESNO COUNTY:

### CUPA FRESNO: CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021  
Date Data Arrived at EDR: 12/21/2021  
Date Made Active in Reports: 03/03/2022  
Number of Days to Update: 72

Source: Dept. of Community Health  
Telephone: 559-445-3271  
Last EDR Contact: 12/29/2022  
Next Scheduled EDR Contact: 04/10/2023  
Data Release Frequency: Semi-Annually

## GLENN COUNTY:

### CUPA GLENN: CUPA Facility List Cupa facility list

Date of Government Version: 01/22/2018  
Date Data Arrived at EDR: 01/24/2018  
Date Made Active in Reports: 03/14/2018  
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District  
Telephone: 830-934-6500  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: No Update Planned

## HUMBOLDT COUNTY:

### CUPA HUMBOLDT: CUPA Facility List CUPA facility list.

Date of Government Version: 08/12/2021  
Date Data Arrived at EDR: 08/12/2021  
Date Made Active in Reports: 11/08/2021  
Number of Days to Update: 88

Source: Humboldt County Environmental Health  
Telephone: N/A  
Last EDR Contact: 02/09/2023  
Next Scheduled EDR Contact: 05/29/2023  
Data Release Frequency: Semi-Annually

## IMPERIAL COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA IMPERIAL: CUPA Facility List Cupa facility list.

Date of Government Version: 10/11/2022  
Date Data Arrived at EDR: 10/12/2022  
Date Made Active in Reports: 12/29/2022  
Number of Days to Update: 78

Source: San Diego Border Field Office  
Telephone: 760-339-2777  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## INYO COUNTY:

### CUPA INYO: CUPA Facility List Cupa facility list.

Date of Government Version: 04/02/2018  
Date Data Arrived at EDR: 04/03/2018  
Date Made Active in Reports: 06/14/2018  
Number of Days to Update: 72

Source: Inyo County Environmental Health Services  
Telephone: 760-878-0238  
Last EDR Contact: 02/09/2023  
Next Scheduled EDR Contact: 05/29/2023  
Data Release Frequency: Varies

## KERN COUNTY:

### CUPA KERN: CUPA Facility List

A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 10/03/2022  
Date Data Arrived at EDR: 10/05/2022  
Date Made Active in Reports: 12/16/2022  
Number of Days to Update: 72

Source: Kern County Public Health  
Telephone: 661-321-3000  
Last EDR Contact: 01/27/2023  
Next Scheduled EDR Contact: 05/15/2023  
Data Release Frequency: Varies

### UST KERN: Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 10/03/2022  
Date Data Arrived at EDR: 10/05/2022  
Date Made Active in Reports: 12/16/2022  
Number of Days to Update: 72

Source: Kern County Environment Health Services Department  
Telephone: 661-862-8700  
Last EDR Contact: 01/27/2023  
Next Scheduled EDR Contact: 05/15/2023  
Data Release Frequency: Quarterly

## KINGS COUNTY:

### CUPA KINGS: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020  
Date Data Arrived at EDR: 01/26/2021  
Date Made Active in Reports: 04/14/2021  
Number of Days to Update: 78

Source: Kings County Department of Public Health  
Telephone: 559-584-1411  
Last EDR Contact: 02/09/2023  
Next Scheduled EDR Contact: 05/29/2023  
Data Release Frequency: Varies

## LAKE COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA LAKE: CUPA Facility List Cupa facility list

Date of Government Version: 11/04/2022  
Date Data Arrived at EDR: 11/07/2022  
Date Made Active in Reports: 01/25/2023  
Number of Days to Update: 79

Source: Lake County Environmental Health  
Telephone: 707-263-1164  
Last EDR Contact: 03/10/2023  
Next Scheduled EDR Contact: 04/24/2023  
Data Release Frequency: Varies

## LASSEN COUNTY:

### CUPA LASSEN: CUPA Facility List Cupa facility list

Date of Government Version: 07/31/2020  
Date Data Arrived at EDR: 08/21/2020  
Date Made Active in Reports: 11/09/2020  
Number of Days to Update: 80

Source: Lassen County Environmental Health  
Telephone: 530-251-8528  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## LOS ANGELES COUNTY:

### AOCONCERN: Key Areas of Concerns in Los Angeles County

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009  
Date Data Arrived at EDR: 03/31/2009  
Date Made Active in Reports: 10/23/2009  
Number of Days to Update: 206

Source: N/A  
Telephone: N/A  
Last EDR Contact: 03/09/2023  
Next Scheduled EDR Contact: 06/26/2023  
Data Release Frequency: No Update Planned

### HMS LOS ANGELES: HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 10/03/2022  
Date Data Arrived at EDR: 10/04/2022  
Date Made Active in Reports: 12/15/2022  
Number of Days to Update: 72

Source: Department of Public Works  
Telephone: 626-458-3517  
Last EDR Contact: 12/28/2022  
Next Scheduled EDR Contact: 04/17/2023  
Data Release Frequency: Semi-Annually

### LF LOS ANGELES: List of Solid Waste Facilities Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/07/2022  
Date Data Arrived at EDR: 10/07/2022  
Date Made Active in Reports: 12/21/2022  
Number of Days to Update: 75

Source: La County Department of Public Works  
Telephone: 818-458-5185  
Last EDR Contact: 01/10/2023  
Next Scheduled EDR Contact: 04/24/2023  
Data Release Frequency: Varies

### LF LOS ANGELES CITY: City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2022  
Date Data Arrived at EDR: 01/21/2022  
Date Made Active in Reports: 04/11/2022  
Number of Days to Update: 80

Source: Engineering & Construction Division  
Telephone: 213-473-7869  
Last EDR Contact: 01/05/2023  
Next Scheduled EDR Contact: 04/24/2023  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LOS ANGELES AST: Active & Inactive AST Inventory

A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

|   |  |
|---|--|
| Date of Government Version: 06/01/2019  | 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: 03/16/2023           |
| Number of Days to Update: 58            | Next Scheduled EDR Contact: 07/03/2023 |
|   | Data Release Frequency: Varies         |

## LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

|   |   |
|---|---|
| Date of Government Version: 01/10/2022  | Source: Los Angeles County Department of Public Works |
| Date Data Arrived at EDR: 01/12/2022    | Telephone: 626-458-6973                               |
| Date Made Active in Reports: 04/04/2022 | Last EDR Contact: 01/05/2023                          |
| Number of Days to Update: 82            | Next Scheduled EDR Contact: 04/24/2023                |
|   | Data Release Frequency: No Update Planned             |

## LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

|   |  |
|---|--|
| Date of Government Version: 11/01/2022  | Source: Los Angeles Fire Department    |
| Date Data Arrived at EDR: 12/14/2022    | Telephone: 213-978-3800                |
| Date Made Active in Reports: 03/07/2023 | Last EDR Contact: 12/14/2022           |
| Number of Days to Update: 83            | Next Scheduled EDR Contact: 04/03/2023 |
|   | Data Release Frequency: Varies         |

## LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

|   |  |
|---|--|
| Date of Government Version: 11/01/2022  | Source: Los Angeles Fire Department    |
| Date Data Arrived at EDR: 12/14/2022    | Telephone: 213-978-3800                |
| Date Made Active in Reports: 03/07/2023 | Last EDR Contact: 12/14/2022           |
| Number of Days to Update: 83            | Next Scheduled EDR Contact: 04/03/2023 |
|   | Data Release Frequency: Varies         |

## SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

|   |  |
|---|--|
| Date of Government Version: 05/26/2021  | Source: Community Health Services      |
| Date Data Arrived at EDR: 07/09/2021    | Telephone: 323-890-7806                |
| Date Made Active in Reports: 09/29/2021 | Last EDR Contact: 01/20/2023           |
| Number of Days to Update: 82            | Next Scheduled EDR Contact: 05/01/2023 |
|   | Data Release Frequency: Annually       |

## UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

|   |  |
|---|--|
| Date of Government Version: 01/21/2017  | 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: 01/05/2023               |
| Number of Days to Update: 21            | Next Scheduled EDR Contact: 04/24/2023     |
|   | Data Release Frequency: No Update Planned  |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 01/20/2023               |
| Number of Days to Update: 65            | Next Scheduled EDR Contact: 05/01/2023     |
|   | Data Release Frequency: Varies             |

UST TORRANCE: City of Torrance Underground Storage Tank  
Underground storage tank sites located in the city of Torrance.

|   |  |
|---|--|
| Date of Government Version: 10/18/2022  | Source: City of Torrance Fire Department |
| Date Data Arrived at EDR: 10/19/2022    | Telephone: 310-618-2973                  |
| Date Made Active in Reports: 01/10/2023 | Last EDR Contact: 01/13/2023             |
| Number of Days to Update: 83            | Next Scheduled EDR Contact: 05/01/2023   |
|   | Data Release Frequency: Semi-Annually    |

MADERA COUNTY:

CUPA MADERA: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

|   |  |
|---|--|
| Date of Government Version: 08/10/2020  | Source: Madera County Environmental Health |
| Date Data Arrived at EDR: 08/12/2020    | Telephone: 559-675-7823                    |
| Date Made Active in Reports: 10/23/2020 | Last EDR Contact: 02/09/2023               |
| Number of Days to Update: 72            | Next Scheduled EDR Contact: 05/29/2023     |
|   | Data Release Frequency: Varies             |

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites  
Currently permitted USTs in Marin County.

|   |  |
|---|--|
| Date of Government Version: 09/26/2018  | 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: 03/22/2023                     |
| Number of Days to Update: 29            | Next Scheduled EDR Contact: 07/10/2023           |
|   | Data Release Frequency: Semi-Annually            |

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database  
A listing of underground storage tank locations in Mendocino County.

|   |  |
|---|--|
| Date of Government Version: 09/22/2021  | Source: Department of Public Health    |
| Date Data Arrived at EDR: 11/18/2021    | Telephone: 707-463-4466                |
| Date Made Active in Reports: 11/22/2021 | Last EDR Contact: 02/15/2023           |
| Number of Days to Update: 4             | Next Scheduled EDR Contact: 06/05/2023 |
|   | Data Release Frequency: Annually       |

MERCED COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA MERCED: CUPA Facility List CUPA facility list.

Date of Government Version: 02/15/2022  
Date Data Arrived at EDR: 02/17/2022  
Date Made Active in Reports: 05/11/2022  
Number of Days to Update: 83

Source: Merced County Environmental Health  
Telephone: 209-381-1094  
Last EDR Contact: 01/31/2023  
Next Scheduled EDR Contact: 05/29/2023  
Data Release Frequency: Varies

## MONO COUNTY:

### CUPA MONO: CUPA Facility List CUPA Facility List

Date of Government Version: 02/22/2021  
Date Data Arrived at EDR: 03/02/2021  
Date Made Active in Reports: 05/19/2021  
Number of Days to Update: 78

Source: Mono County Health Department  
Telephone: 760-932-5580  
Last EDR Contact: 02/15/2023  
Next Scheduled EDR Contact: 06/05/2023  
Data Release Frequency: Varies

## MONTEREY COUNTY:

### CUPA MONTEREY: CUPA Facility Listing CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021  
Date Data Arrived at EDR: 10/06/2021  
Date Made Active in Reports: 12/29/2021  
Number of Days to Update: 84

Source: Monterey County Health Department  
Telephone: 831-796-1297  
Last EDR Contact: 03/22/2023  
Next Scheduled EDR Contact: 07/10/2023  
Data Release Frequency: Varies

## NAPA COUNTY:

### LUST NAPA: Sites With Reported Contamination A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017  
Date Data Arrived at EDR: 01/11/2017  
Date Made Active in Reports: 03/02/2017  
Number of Days to Update: 50

Source: Napa County Department of Environmental Management  
Telephone: 707-253-4269  
Last EDR Contact: 02/15/2023  
Next Scheduled EDR Contact: 06/05/2023  
Data Release Frequency: No Update Planned

### UST NAPA: Closed and Operating Underground Storage Tank Sites Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019  
Date Data Arrived at EDR: 09/09/2019  
Date Made Active in Reports: 10/31/2019  
Number of Days to Update: 52

Source: Napa County Department of Environmental Management  
Telephone: 707-253-4269  
Last EDR Contact: 02/15/2023  
Next Scheduled EDR Contact: 06/05/2023  
Data Release Frequency: No Update Planned

## NEVADA COUNTY:

### CUPA NEVADA: CUPA Facility List CUPA facility list.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/27/2022  
Date Data Arrived at EDR: 10/27/2022  
Date Made Active in Reports: 01/18/2023  
Number of Days to Update: 83

Source: Community Development Agency  
Telephone: 530-265-1467  
Last EDR Contact: 01/20/2023  
Next Scheduled EDR Contact: 05/08/2023  
Data Release Frequency: Varies

## ORANGE COUNTY:

IND\_SITE ORANGE: List of Industrial Site Cleanups  
Petroleum and non-petroleum spills.

Date of Government Version: 05/24/2022  
Date Data Arrived at EDR: 08/09/2022  
Date Made Active in Reports: 10/28/2022  
Number of Days to Update: 80

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 01/31/2023  
Next Scheduled EDR Contact: 05/15/2023  
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups  
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 04/08/2022  
Date Data Arrived at EDR: 05/18/2022  
Date Made Active in Reports: 08/03/2022  
Number of Days to Update: 77

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 01/31/2023  
Next Scheduled EDR Contact: 05/15/2023  
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities  
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 05/24/2022  
Date Data Arrived at EDR: 08/01/2022  
Date Made Active in Reports: 10/20/2022  
Number of Days to Update: 80

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 01/31/2023  
Next Scheduled EDR Contact: 05/15/2023  
Data Release Frequency: Quarterly

## PLACER COUNTY:

MS PLACER: Master List of Facilities  
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/26/2022  
Date Data Arrived at EDR: 08/29/2022  
Date Made Active in Reports: 11/15/2022  
Number of Days to Update: 78

Source: Placer County Health and Human Services  
Telephone: 530-745-2363  
Last EDR Contact: 02/13/2023  
Next Scheduled EDR Contact: 06/12/2023  
Data Release Frequency: Semi-Annually

## PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List  
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019  
Date Data Arrived at EDR: 04/23/2019  
Date Made Active in Reports: 06/26/2019  
Number of Days to Update: 64

Source: Plumas County Environmental Health  
Telephone: 530-283-6355  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## RIVERSIDE COUNTY:

# 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: 09/22/2022  
Date Data Arrived at EDR: 09/26/2022  
Date Made Active in Reports: 12/09/2022  
Number of Days to Update: 74

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 03/09/2023  
Next Scheduled EDR Contact: 06/26/2023  
Data Release Frequency: Quarterly

## UST RIVERSIDE: Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 09/22/2022  
Date Data Arrived at EDR: 09/26/2022  
Date Made Active in Reports: 12/09/2022  
Number of Days to Update: 74

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 03/09/2023  
Next Scheduled EDR Contact: 06/26/2023  
Data Release Frequency: Quarterly

## SACRAMENTO COUNTY:

### CS SACRAMENTO: Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2022  
Date Data Arrived at EDR: 12/21/2022  
Date Made Active in Reports: 03/16/2023  
Number of Days to Update: 85

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 12/21/2022  
Next Scheduled EDR Contact: 04/10/2023  
Data Release Frequency: Quarterly

### ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/07/2022  
Date Data Arrived at EDR: 12/09/2022  
Date Made Active in Reports: 03/01/2023  
Number of Days to Update: 82

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 12/09/2022  
Next Scheduled EDR Contact: 04/10/2023  
Data Release Frequency: Quarterly

## SAN BENITO COUNTY:

### CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 10/27/2022  
Date Data Arrived at EDR: 10/28/2022  
Date Made Active in Reports: 01/18/2023  
Number of Days to Update: 82

Source: San Benito County Environmental Health  
Telephone: N/A  
Last EDR Contact: 01/27/2023  
Next Scheduled EDR Contact: 05/15/2023  
Data Release Frequency: Varies

## SAN BERNARDINO COUNTY:

### PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/18/2022  
Date Data Arrived at EDR: 11/21/2022  
Date Made Active in Reports: 02/09/2023  
Number of Days to Update: 80

Source: San Bernardino County Fire Department Hazardous Materials Division  
Telephone: 909-387-3041  
Last EDR Contact: 01/30/2023  
Next Scheduled EDR Contact: 05/15/2023  
Data Release Frequency: Quarterly

## SAN DIEGO COUNTY:

### HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 11/28/2022  
Date Data Arrived at EDR: 11/29/2022  
Date Made Active in Reports: 02/14/2023  
Number of Days to Update: 77

Source: Hazardous Materials Management Division  
Telephone: 619-338-2268  
Last EDR Contact: 02/28/2023  
Next Scheduled EDR Contact: 06/12/2023  
Data Release Frequency: Quarterly

### LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/27/2021  
Date Data Arrived at EDR: 03/04/2022  
Date Made Active in Reports: 05/31/2022  
Number of Days to Update: 88

Source: Department of Health Services  
Telephone: 619-338-2209  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

### SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021  
Date Data Arrived at EDR: 10/19/2021  
Date Made Active in Reports: 01/13/2022  
Number of Days to Update: 86

Source: Department of Environmental Health  
Telephone: 858-505-6874  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

### SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010  
Date Data Arrived at EDR: 06/15/2010  
Date Made Active in Reports: 07/09/2010  
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health  
Telephone: 619-338-2371  
Last EDR Contact: 02/23/2023  
Next Scheduled EDR Contact: 06/12/2023  
Data Release Frequency: No Update Planned

## SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing  
Cupa facilities

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/03/2022  
Date Data Arrived at EDR: 11/07/2022  
Date Made Active in Reports: 01/25/2023  
Number of Days to Update: 79

Source: San Francisco County Department of Environmental Health  
Telephone: 415-252-3896  
Last EDR Contact: 01/27/2023  
Next Scheduled EDR Contact: 05/15/2023  
Data Release Frequency: Varies

## LUST SAN FRANCISCO: Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008  
Date Data Arrived at EDR: 09/19/2008  
Date Made Active in Reports: 09/29/2008  
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County  
Telephone: 415-252-3920  
Last EDR Contact: 01/27/2023  
Next Scheduled EDR Contact: 05/15/2023  
Data Release Frequency: No Update Planned

## UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/03/2022  
Date Data Arrived at EDR: 11/07/2022  
Date Made Active in Reports: 01/24/2023  
Number of Days to Update: 78

Source: Department of Public Health  
Telephone: 415-252-3920  
Last EDR Contact: 01/27/2023  
Next Scheduled EDR Contact: 05/15/2023  
Data Release Frequency: Quarterly

## SAN FRANCISCO COUNTY:

### SAN FRANCISCO MAHER: Maher Ordinance Property Listing

a listing of properties that fall within a Maher Ordinance, for all of San Francisco

Date of Government Version: 10/11/2022  
Date Data Arrived at EDR: 10/14/2022  
Date Made Active in Reports: 01/04/2023  
Number of Days to Update: 82

Source: San Francisco Planning  
Telephone: 628-652-7483  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## SAN JOAQUIN COUNTY:

### UST SAN JOAQUIN: San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018  
Date Data Arrived at EDR: 06/26/2018  
Date Made Active in Reports: 07/11/2018  
Number of Days to Update: 15

Source: Environmental Health Department  
Telephone: N/A  
Last EDR Contact: 03/09/2023  
Next Scheduled EDR Contact: 06/26/2023  
Data Release Frequency: Semi-Annually

## SAN LUIS OBISPO COUNTY:

### CUPA SAN LUIS OBISPO: CUPA Facility List Cupa Facility List.

Date of Government Version: 11/08/2022  
Date Data Arrived at EDR: 11/09/2022  
Date Made Active in Reports: 02/01/2023  
Number of Days to Update: 84

Source: San Luis Obispo County Public Health Department  
Telephone: 805-781-5596  
Last EDR Contact: 02/09/2023  
Next Scheduled EDR Contact: 05/29/2023  
Data Release Frequency: Varies

## SAN MATEO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## BI SAN MATEO: Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020  
Date Data Arrived at EDR: 02/20/2020  
Date Made Active in Reports: 04/24/2020  
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 03/10/2023  
Next Scheduled EDR Contact: 06/19/2023  
Data Release Frequency: Annually

## LUST SAN MATEO: Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019  
Date Data Arrived at EDR: 03/29/2019  
Date Made Active in Reports: 05/29/2019  
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 03/02/2023  
Next Scheduled EDR Contact: 06/19/2023  
Data Release Frequency: Semi-Annually

## SANTA BARBARA COUNTY:

### CUPA SANTA BARBARA: CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011  
Date Data Arrived at EDR: 09/09/2011  
Date Made Active in Reports: 10/07/2011  
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department  
Telephone: 805-686-8167  
Last EDR Contact: 02/09/2023  
Next Scheduled EDR Contact: 05/29/2023  
Data Release Frequency: No Update Planned

## SANTA CLARA COUNTY:

### CUPA SANTA CLARA: Cupa Facility List

Cupa facility list

Date of Government Version: 10/28/2022  
Date Data Arrived at EDR: 11/01/2022  
Date Made Active in Reports: 01/20/2023  
Number of Days to Update: 80

Source: Department of Environmental Health  
Telephone: 408-918-1973  
Last EDR Contact: 02/09/2023  
Next Scheduled EDR Contact: 05/29/2023  
Data Release Frequency: Varies

### HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005  
Date Data Arrived at EDR: 03/30/2005  
Date Made Active in Reports: 04/21/2005  
Number of Days to Update: 22

Source: Santa Clara Valley Water District  
Telephone: 408-265-2600  
Last EDR Contact: 03/23/2009  
Next Scheduled EDR Contact: 06/22/2009  
Data Release Frequency: No Update Planned

### LUST SANTA CLARA: LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014  
Date Data Arrived at EDR: 03/05/2014  
Date Made Active in Reports: 03/18/2014  
Number of Days to Update: 13

Source: Department of Environmental Health  
Telephone: 408-918-3417  
Last EDR Contact: 02/15/2023  
Next Scheduled EDR Contact: 06/05/2023  
Data Release Frequency: No Update Planned

## SANTA CRUZ COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA SANTA CRUZ: CUPA Facility List CUPA facility listing.

Date of Government Version: 01/21/2017  
Date Data Arrived at EDR: 02/22/2017  
Date Made Active in Reports: 05/23/2017  
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health  
Telephone: 831-464-2761  
Last EDR Contact: 02/09/2023  
Next Scheduled EDR Contact: 05/29/2023  
Data Release Frequency: Varies

## SHASTA COUNTY:

### CUPA SHASTA: CUPA Facility List Cupa Facility List.

Date of Government Version: 06/15/2017  
Date Data Arrived at EDR: 06/19/2017  
Date Made Active in Reports: 08/09/2017  
Number of Days to Update: 51

Source: Shasta County Department of Resource Management  
Telephone: 530-225-5789  
Last EDR Contact: 02/09/2023  
Next Scheduled EDR Contact: 05/29/2023  
Data Release Frequency: Varies

## SOLANO COUNTY:

### LUST SOLANO: Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019  
Date Data Arrived at EDR: 06/06/2019  
Date Made Active in Reports: 08/13/2019  
Number of Days to Update: 68

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 02/23/2023  
Next Scheduled EDR Contact: 06/12/2023  
Data Release Frequency: Quarterly

### UST SOLANO: Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021  
Date Data Arrived at EDR: 09/16/2021  
Date Made Active in Reports: 12/09/2021  
Number of Days to Update: 84

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 02/23/2023  
Next Scheduled EDR Contact: 06/12/2023  
Data Release Frequency: Quarterly

## SONOMA COUNTY:

### CUPA SONOMA: Cupa Facility List Cupa Facility list

Date of Government Version: 07/02/2021  
Date Data Arrived at EDR: 07/06/2021  
Date Made Active in Reports: 07/14/2021  
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department  
Telephone: 707-565-1174  
Last EDR Contact: 06/28/2021  
Next Scheduled EDR Contact: 07/03/2023  
Data Release Frequency: Varies

### LUST SONOMA: Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021  
Date Data Arrived at EDR: 06/30/2021  
Date Made Active in Reports: 09/24/2021  
Number of Days to Update: 86

Source: Department of Health Services  
Telephone: 707-565-6565  
Last EDR Contact: 03/16/2023  
Next Scheduled EDR Contact: 07/03/2023  
Data Release Frequency: Quarterly

## STANISLAUS COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA STANISLAUS: CUPA Facility List Cupa facility list

Date of Government Version: 02/08/2022  
Date Data Arrived at EDR: 02/10/2022  
Date Made Active in Reports: 05/04/2022  
Number of Days to Update: 83

Source: Stanislaus County Department of Environmental Protection  
Telephone: 209-525-6751  
Last EDR Contact: 01/09/2023  
Next Scheduled EDR Contact: 04/24/2023  
Data Release Frequency: Varies

## SUTTER COUNTY:

### UST SUTTER: Underground Storage Tanks Underground storage tank sites located in Sutter county.

Date of Government Version: 08/03/2022  
Date Data Arrived at EDR: 08/25/2022  
Date Made Active in Reports: 11/14/2022  
Number of Days to Update: 81

Source: Sutter County Environmental Health Services  
Telephone: 530-822-7500  
Last EDR Contact: 02/23/2023  
Next Scheduled EDR Contact: 06/12/2023  
Data Release Frequency: Semi-Annually

## TEHAMA COUNTY:

### CUPA TEHAMA: CUPA Facility List Cupa facilities

Date of Government Version: 11/17/2022  
Date Data Arrived at EDR: 11/21/2022  
Date Made Active in Reports: 02/10/2023  
Number of Days to Update: 81

Source: Tehama County Department of Environmental Health  
Telephone: 530-527-8020  
Last EDR Contact: 01/27/2023  
Next Scheduled EDR Contact: 05/15/2023  
Data Release Frequency: Varies

## TRINITY COUNTY:

### CUPA TRINITY: CUPA Facility List Cupa facility list

Date of Government Version: 10/11/2022  
Date Data Arrived at EDR: 10/12/2022  
Date Made Active in Reports: 12/29/2022  
Number of Days to Update: 78

Source: Department of Toxic Substances Control  
Telephone: 760-352-0381  
Last EDR Contact: 01/13/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## TULARE COUNTY:

### CUPA TULARE: CUPA Facility List Cupa program facilities

Date of Government Version: 10/07/2022  
Date Data Arrived at EDR: 10/07/2022  
Date Made Active in Reports: 12/21/2022  
Number of Days to Update: 75

Source: Tulare County Environmental Health Services Division  
Telephone: 559-624-7400  
Last EDR Contact: 01/27/2023  
Next Scheduled EDR Contact: 05/15/2023  
Data Release Frequency: Varies

## TUOLUMNE COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 01/13/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Varies

## VENTURA COUNTY:

### BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/26/2022  
Date Data Arrived at EDR: 10/19/2022  
Date Made Active in Reports: 01/10/2023  
Number of Days to Update: 83

Source: Ventura County Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Quarterly

### LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011  
Date Data Arrived at EDR: 12/01/2011  
Date Made Active in Reports: 01/19/2012  
Number of Days to Update: 49

Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 03/22/2023  
Next Scheduled EDR Contact: 07/10/2023  
Data Release Frequency: No Update Planned

### LUST VENTURA: Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008  
Date Data Arrived at EDR: 06/24/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 37

Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 02/02/2023  
Next Scheduled EDR Contact: 05/22/2023  
Data Release Frequency: No Update Planned

### MED WASTE VENTURA: Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/26/2022  
Date Data Arrived at EDR: 10/20/2022  
Date Made Active in Reports: 01/10/2023  
Number of Days to Update: 82

Source: Ventura County Resource Management Agency  
Telephone: 805-654-2813  
Last EDR Contact: 01/17/2023  
Next Scheduled EDR Contact: 05/01/2023  
Data Release Frequency: Quarterly

### UST VENTURA: Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 11/28/2022  
Date Data Arrived at EDR: 12/02/2022  
Date Made Active in Reports: 02/23/2023  
Number of Days to Update: 83

Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 03/07/2023  
Next Scheduled EDR Contact: 06/19/2023  
Data Release Frequency: Quarterly

## YOLO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST YOLO: Underground Storage Tank Comprehensive Facility Report  
Underground storage tank sites located in Yolo county.

|   |  |
|---|--|
| Date of Government Version: 12/19/2022  | Source: Yolo County Department of Health |
| Date Data Arrived at EDR: 12/27/2022    | Telephone: 530-666-8646                  |
| Date Made Active in Reports: 03/17/2023 | Last EDR Contact: 03/22/2023             |
| Number of Days to Update: 80            | Next Scheduled EDR Contact: 07/10/2023   |
|   | Data Release Frequency: Annually         |

YUBA COUNTY:

CUPA YUBA: CUPA Facility List  
CUPA facility listing for Yuba County.

|   |   |
|---|---|
| Date of Government Version: 10/25/2022  | Source: Yuba County Environmental Health Department |
| Date Data Arrived at EDR: 10/26/2022    | Telephone: 530-749-7523                             |
| Date Made Active in Reports: 10/31/2022 | Last EDR Contact: 01/20/2023                        |
| Number of Days to Update: 5             | Next Scheduled EDR Contact: 05/08/2023              |
|   | Data Release Frequency: Varies                      |

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

|   |   |
|---|---|
| Date of Government Version: 11/16/2022  | Source: Department of Energy & Environmental Protection |
| Date Data Arrived at EDR: 11/16/2022    | Telephone: 860-424-3375                                 |
| Date Made Active in Reports: 02/06/2023 | Last EDR Contact: 02/10/2023                            |
| Number of Days to Update: 82            | Next Scheduled EDR Contact: 05/22/2023                  |
|   | Data Release Frequency: No Update Planned               |

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

|   |  |
|---|--|
| Date of Government Version: 12/31/2018  | Source: Department of Environmental Protection |
| Date Data Arrived at EDR: 04/10/2019    | Telephone: N/A                                 |
| Date Made Active in Reports: 05/16/2019 | Last EDR Contact: 12/28/2022                   |
| Number of Days to Update: 36            | Next Scheduled EDR Contact: 04/17/2023         |
|   | Data Release Frequency: Annually               |

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

|   |  |
|---|--|
| Date of Government Version: 01/01/2019  | Source: Department of Environmental Conservation |
| Date Data Arrived at EDR: 10/29/2021    | Telephone: 518-402-8651                          |
| Date Made Active in Reports: 01/19/2022 | Last EDR Contact: 01/27/2023                     |
| Number of Days to Update: 82            | Next Scheduled EDR Contact: 05/08/2023           |
|   | Data Release Frequency: Quarterly                |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018  
Date Data Arrived at EDR: 07/19/2019  
Date Made Active in Reports: 09/10/2019  
Number of Days to Update: 53

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 01/06/2023  
Next Scheduled EDR Contact: 04/24/2023  
Data Release Frequency: Annually

## RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020  
Date Data Arrived at EDR: 11/30/2021  
Date Made Active in Reports: 02/18/2022  
Number of Days to Update: 80

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 02/13/2022  
Next Scheduled EDR Contact: 05/29/2023  
Data Release Frequency: Annually

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018  
Date Data Arrived at EDR: 06/19/2019  
Date Made Active in Reports: 09/03/2019  
Number of Days to Update: 76

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 03/06/2023  
Next Scheduled EDR Contact: 06/19/2023  
Data Release Frequency: Annually

## Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

## Electric Power Transmission Line Data

Source: Endeavor Business Media

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**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

## AHA Hospitals:

Source: American Hospital Association, Inc.  
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

## Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services  
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

## Nursing Homes

Source: National Institutes of Health  
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

## Public Schools

Source: National Center for Education Statistics  
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

### Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Wetland Inventory

Source: Department of Fish and Wildlife

Telephone: 916-445-0411

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

### STREET AND ADDRESS INFORMATION

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

SARITA PRASAD SAC  
3200 RIO LINDA BOULEVARD  
SACRAMENTO, CA 95815

### TARGET PROPERTY COORDINATES

Latitude (North): 38.625387 - 38° 37' 31.39"  
Longitude (West): 121.445858 - 121° 26' 45.09"  
Universal Transverse Mercator: Zone 10  
UTM X (Meters): 635289.8  
UTM Y (Meters): 4276145.0  
Elevation: 30 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map: 12021639 RIO LINDA, CA  
Version Date: 2018

South Map: 12021645 SACRAMENTO EAST, CA  
Version Date: 2018

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

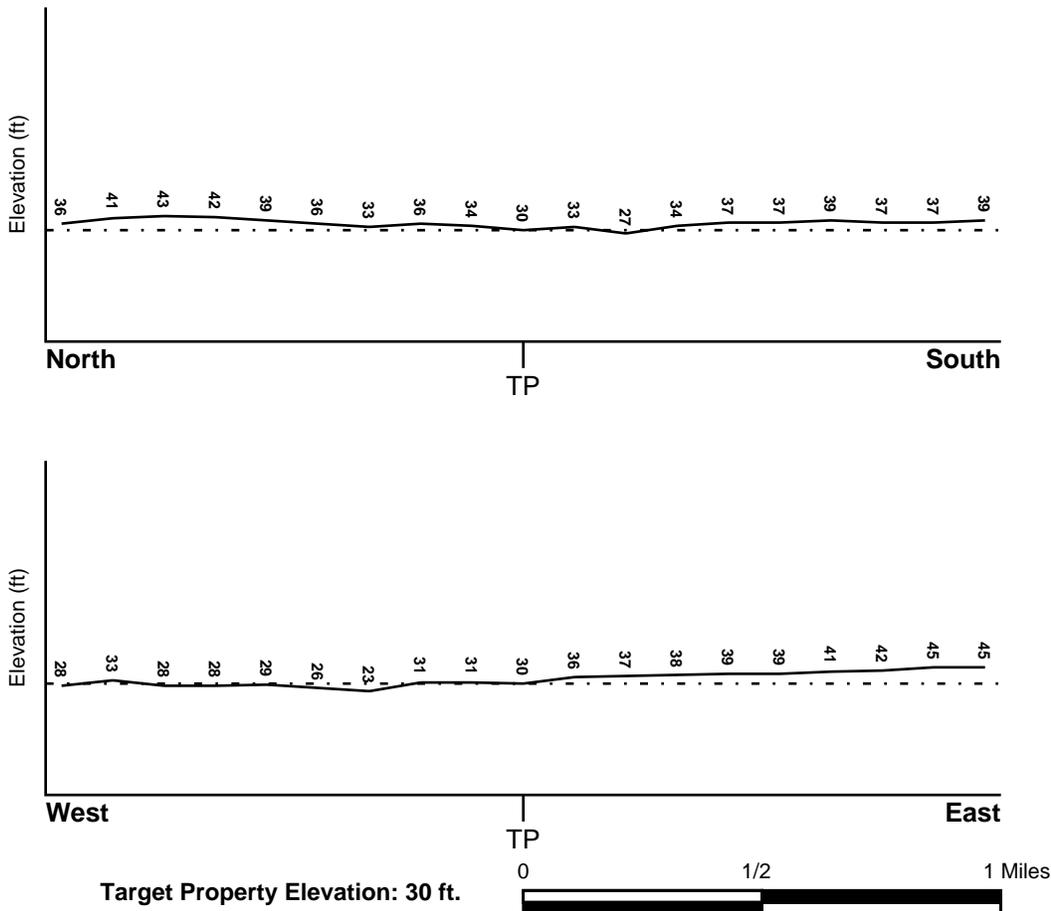
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## **FEMA FLOOD ZONE**

|   |                         |
|---|-------------------------|
| <u>Flood Plain Panel at Target Property</u> | <u>FEMA Source Type</u> |
| 06067C0064J                                 | FEMA FIRM Flood data    |
| <u>Additional Panels in search area:</u>    | <u>FEMA Source Type</u> |
| 06067C0068H                                 | FEMA FIRM Flood data    |
| 06067C0177J                                 | FEMA FIRM Flood data    |
| 06067C0181H                                 | FEMA FIRM Flood data    |

## **NATIONAL WETLAND INVENTORY**

|                                    |  |
|------------------------------------|--|
| <u>NWI Quad at Target Property</u> | <u>NWI Electronic Data Coverage</u>            |
| RIO LINDA                          | 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**

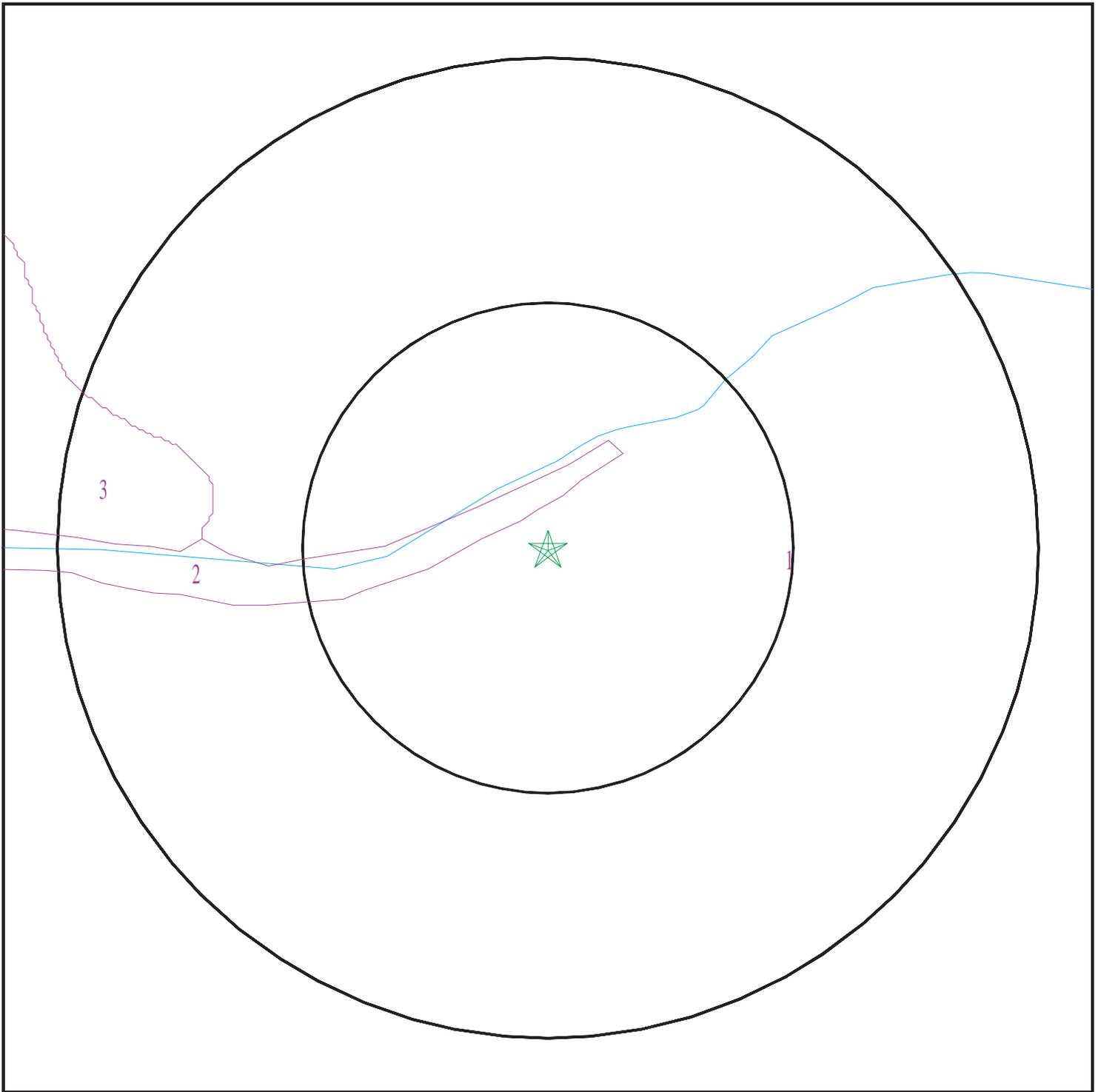
Era: Cenozoic  
System: Quaternary  
Series: Quaternary  
Code: Q (*decoded above as Era, System & Series*)

#### **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 - 7287764.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Sarita Prasad SAC  
ADDRESS: 3200 Rio Linda Boulevard  
Sacramento CA 95815  
LAT/LONG: 38.625387 / 121.445858

CLIENT: Soar Environmental Consulting, Inc.  
CONTACT: Marcus Patton  
INQUIRY #: 7287764.2s  
DATE: March 23, 2023 1:43 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: SAN JOAQUIN

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

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  | 12 inches | fine sandy loam    | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 1.4<br>Min: 0.42                        | Max: 7.8<br>Min: 6.1 |
| 2                      | 12 inches | 29 inches | sandy clay loam    | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 1.4<br>Min: 0.42                        | Max: 7.8<br>Min: 6.1 |
| 3                      | 29 inches | 35 inches | clay loam          | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 1.4<br>Min: 0.42                        | Max: 7.8<br>Min: 6.1 |
| 4                      | 35 inches | 59 inches | indurated          | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 1.4<br>Min: 0.42                        | Max: 7.8<br>Min: 6.1 |

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| Soil Layer Information |           |           |                               |   |  |   |                      |
|------------------------|-----------|-----------|-------------------------------|---|--|---|----------------------|
| Layer                  | Boundary  |           | Soil Texture Class            | Classification  |  | Saturated hydraulic conductivity<br>micro m/sec | Soil Reaction (pH)   |
|                        | Upper     | Lower     |                               | AASHTO Group  | Unified Soil   |   |                      |
| 5                      | 59 inches | 66 inches | stratified sandy loam to loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 1.4<br>Min: 0.42                           | Max: 7.8<br>Min: 6.1 |

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### Soil Map ID: 2

Soil Component Name: Water

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

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.

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### Soil Map ID: 3

Soil Component Name: SAN JOAQUIN

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| 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  | 12 inches | fine sandy loam               | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 1.4<br>Min: 0.42                        | Max: 7.8<br>Min: 6.1 |
| 2                      | 12 inches | 29 inches | sandy clay loam               | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 1.4<br>Min: 0.42                        | Max: 7.8<br>Min: 6.1 |
| 3                      | 29 inches | 35 inches | clay loam                     | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 1.4<br>Min: 0.42                        | Max: 7.8<br>Min: 6.1 |
| 4                      | 35 inches | 59 inches | indurated                     | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 1.4<br>Min: 0.42                        | Max: 7.8<br>Min: 6.1 |
| 5                      | 59 inches | 66 inches | stratified sandy loam to loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 1.4<br>Min: 0.42                        | Max: 7.8<br>Min: 6.1 |

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## WELL SEARCH DISTANCE INFORMATION

| <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> |
|---------------|-----------------|-------------------------|
| C13           | USGS40000189583 | 1/8 - 1/4 Mile SSW      |
| D21           | USGS40000189580 | 1/4 - 1/2 Mile SSE      |
| H33           | USGS40000189607 | 1/2 - 1 Mile ENE        |
| 37            | USGS40000189600 | 1/2 - 1 Mile West       |
| I39           | USGS40000189605 | 1/2 - 1 Mile ENE        |
| M56           | USGS40000189623 | 1/2 - 1 Mile NE         |
| O67           | USGS40000189578 | 1/2 - 1 Mile ESE        |
| Q72           | USGS40000189601 | 1/2 - 1 Mile East       |
| R74           | USGS40000189641 | 1/2 - 1 Mile North      |
| U86           | USGS40000189527 | 1/2 - 1 Mile SSW        |
| V88           | USGS40000189596 | 1/2 - 1 Mile West       |
| Z99           | USGS40000189540 | 1/2 - 1 Mile SW         |
| Y109          | USGS40000189523 | 1/2 - 1 Mile SSE        |

## **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> |
|---------------|------------------|-------------------------|
| A1            | CAEDF00000006161 | 0 - 1/8 Mile WNW        |
| A2            | CAEDF00000079851 | 0 - 1/8 Mile WNW        |
| A3            | CAEDF00000021625 | 0 - 1/8 Mile SE         |
| A4            | CAEDF00000119949 | 0 - 1/8 Mile South      |
| A5            | CAEDF00000092286 | 0 - 1/8 Mile ESE        |
| A6            | CAEDF00000038535 | 0 - 1/8 Mile SW         |
| A7            | CAEDF00000114448 | 0 - 1/8 Mile SE         |
| A8            | CAEDF00000100701 | 0 - 1/8 Mile South      |
| A9            | CAEDF00000017252 | 0 - 1/8 Mile East       |
| A10           | CAEDF00000084798 | 0 - 1/8 Mile SSW        |
| B11           | CAEDF00000081250 | 0 - 1/8 Mile SE         |
| B12           | CAEDF00000084009 | 0 - 1/8 Mile ESE        |
| C14           | CADWR90000039862 | 1/8 - 1/4 Mile South    |

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## STATE DATABASE WELL INFORMATION

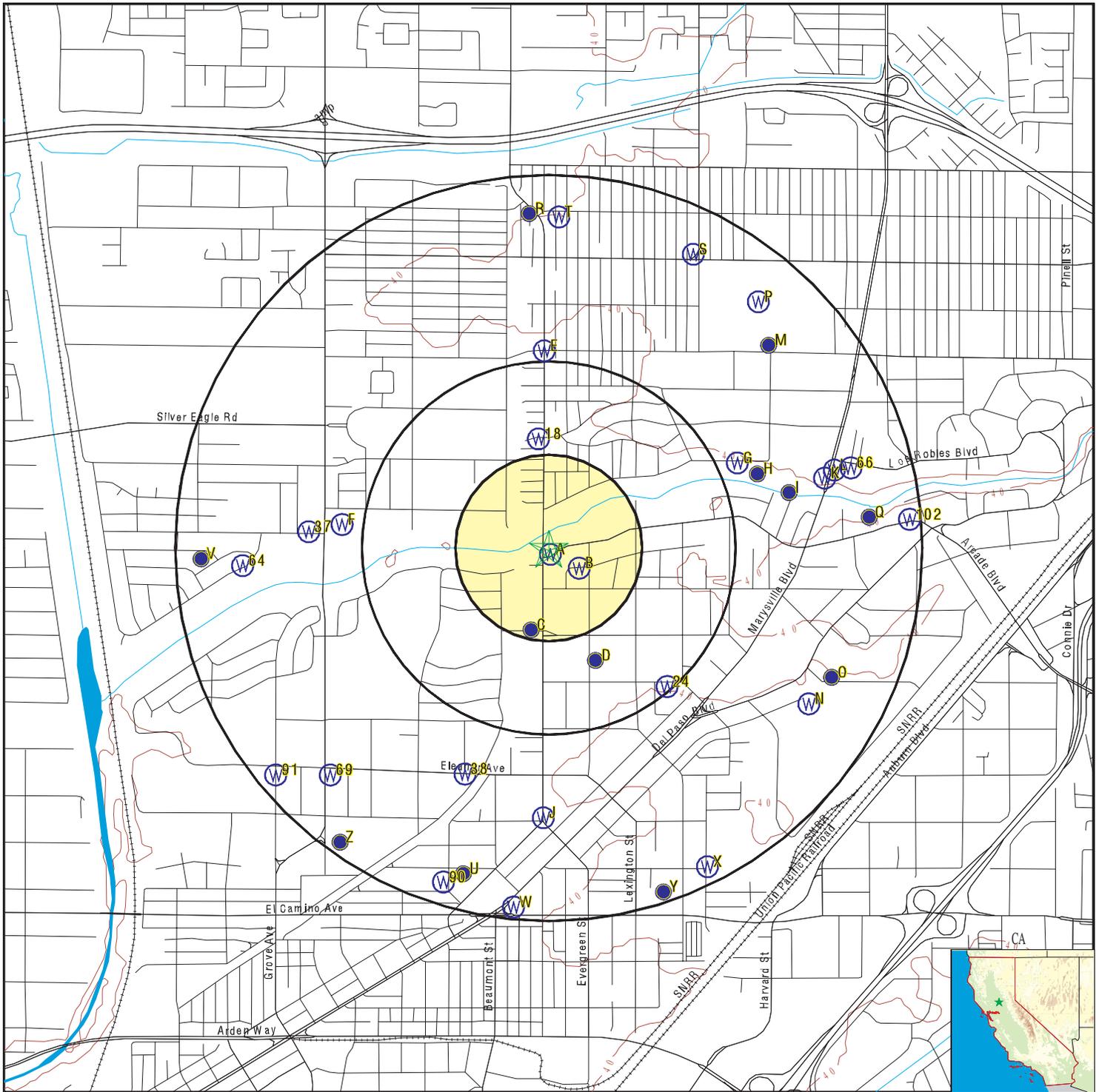
| MAP ID | WELL ID         | LOCATION<br>FROM TP  |
|--------|-----------------|----------------------|
| C15    | CADDW0000014032 | 1/8 - 1/4 Mile SSW   |
| C16    | 9026            | 1/8 - 1/4 Mile SSW   |
| C17    | CALLNL000001369 | 1/8 - 1/4 Mile SSW   |
| 18     | 9010            | 1/4 - 1/2 Mile North |
| D19    | 9025            | 1/4 - 1/2 Mile SSE   |
| D20    | CALLNL000001410 | 1/4 - 1/2 Mile SSE   |
| D22    | CADDW0000017382 | 1/4 - 1/2 Mile SSE   |
| D23    | CADWR9000039858 | 1/4 - 1/2 Mile SSE   |
| 24     | CADDW0000001022 | 1/4 - 1/2 Mile SE    |
| E25    | CAEDF0000068068 | 1/2 - 1 Mile North   |
| F26    | CADDW0000016612 | 1/2 - 1 Mile West    |
| E27    | CAEDF0000110506 | 1/2 - 1 Mile North   |
| E28    | CAEDF0000068298 | 1/2 - 1 Mile North   |
| E29    | CAEDF0000094543 | 1/2 - 1 Mile North   |
| G30    | 9011            | 1/2 - 1 Mile ENE     |
| G31    | CALLNL000001422 | 1/2 - 1 Mile ENE     |
| G32    | CADDW0000003074 | 1/2 - 1 Mile ENE     |
| F34    | 9019            | 1/2 - 1 Mile West    |
| H35    | CADWR9000039882 | 1/2 - 1 Mile ENE     |
| I36    | 9012            | 1/2 - 1 Mile ENE     |
| 38     | CADDW0000004474 | 1/2 - 1 Mile SSW     |
| J40    | CADWR9000039828 | 1/2 - 1 Mile South   |
| K41    | CADDW0000017882 | 1/2 - 1 Mile ENE     |
| J42    | CAEDF0000075487 | 1/2 - 1 Mile South   |
| J43    | CAEDF0000048034 | 1/2 - 1 Mile South   |
| J44    | CAEDF0000083533 | 1/2 - 1 Mile South   |
| K45    | CAEDF0000042074 | 1/2 - 1 Mile ENE     |
| L46    | CAEDF0000048673 | 1/2 - 1 Mile ENE     |
| K47    | CAEDF0000079394 | 1/2 - 1 Mile ENE     |
| K48    | CALLNL000000722 | 1/2 - 1 Mile ENE     |
| K49    | CAEDF0000005035 | 1/2 - 1 Mile ENE     |
| K50    | CAEDF0000044929 | 1/2 - 1 Mile ENE     |
| K51    | CAEDF0000062491 | 1/2 - 1 Mile ENE     |
| L52    | CAEDF0000102645 | 1/2 - 1 Mile ENE     |
| L53    | CAEDF0000035987 | 1/2 - 1 Mile ENE     |
| L54    | CAEDF0000107962 | 1/2 - 1 Mile ENE     |
| L55    | CAEDF0000008277 | 1/2 - 1 Mile ENE     |
| M57    | CADWR9000039897 | 1/2 - 1 Mile NE      |
| L58    | CAEDF0000037234 | 1/2 - 1 Mile ENE     |
| L59    | CAEDF0000130322 | 1/2 - 1 Mile ENE     |
| L60    | CAEDF0000108525 | 1/2 - 1 Mile ENE     |
| N61    | 9027            | 1/2 - 1 Mile ESE     |
| N62    | CALLNL000001442 | 1/2 - 1 Mile ESE     |
| O63    | CADDW0000002456 | 1/2 - 1 Mile ESE     |
| 64     | CADWR9000039868 | 1/2 - 1 Mile West    |
| O65    | CADWR9000039857 | 1/2 - 1 Mile ESE     |
| 66     | CAEDF0000091176 | 1/2 - 1 Mile ENE     |
| P68    | 9009            | 1/2 - 1 Mile NE      |
| 69     | 9022            | 1/2 - 1 Mile SW      |
| O70    | CAUSGSN00008770 | 1/2 - 1 Mile ESE     |
| Q71    | 9024            | 1/2 - 1 Mile East    |
| Q73    | CADWR9000039875 | 1/2 - 1 Mile East    |

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### STATE DATABASE WELL INFORMATION

| MAP ID | WELL ID         | LOCATION<br>FROM TP |
|--------|-----------------|---------------------|
| S75    | CAEDF0000062143 | 1/2 - 1 Mile NNE    |
| T76    | CADWR9000039911 | 1/2 - 1 Mile North  |
| S77    | CAEDF0000128696 | 1/2 - 1 Mile NNE    |
| U78    | CALLNL000000605 | 1/2 - 1 Mile SSW    |
| S79    | CAEDF0000064294 | 1/2 - 1 Mile NNE    |
| P80    | CADDW0000013737 | 1/2 - 1 Mile NE     |
| Q81    | CADDW0000006461 | 1/2 - 1 Mile East   |
| R82    | CADDW0000015196 | 1/2 - 1 Mile North  |
| U83    | CADDW0000022718 | 1/2 - 1 Mile SSW    |
| T84    | CALLNL000000074 | 1/2 - 1 Mile North  |
| V85    | CADDW0000017956 | 1/2 - 1 Mile West   |
| R87    | 9008            | 1/2 - 1 Mile North  |
| W89    | CAEDF0000082220 | 1/2 - 1 Mile South  |
| 90     | 9023            | 1/2 - 1 Mile SSW    |
| 91     | 9021            | 1/2 - 1 Mile SW     |
| W92    | CAEDF0000119685 | 1/2 - 1 Mile South  |
| X93    | CADWR0000007909 | 1/2 - 1 Mile SSE    |
| X94    | CADWR0000020618 | 1/2 - 1 Mile SSE    |
| Y95    | CADDW0000005459 | 1/2 - 1 Mile SSE    |
| V96    | 9020            | 1/2 - 1 Mile West   |
| W97    | CAEDF0000128314 | 1/2 - 1 Mile South  |
| W98    | CAEDF0000050048 | 1/2 - 1 Mile South  |
| Z100   | CAEDF0000041217 | 1/2 - 1 Mile SW     |
| Z101   | CADDW0000004432 | 1/2 - 1 Mile SW     |
| 102    | CADWR9000039873 | 1/2 - 1 Mile East   |
| W103   | CAEDF0000062832 | 1/2 - 1 Mile South  |
| W104   | CAEDF0000102280 | 1/2 - 1 Mile South  |
| W105   | CAEDF0000014859 | 1/2 - 1 Mile South  |
| W106   | CAEDF0000133632 | 1/2 - 1 Mile South  |
| W107   | CAEDF0000106191 | 1/2 - 1 Mile South  |
| W108   | CAEDF0000122429 | 1/2 - 1 Mile South  |

# PHYSICAL SETTING SOURCE MAP - 7287764.2s



- 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: Sarita Prasad SAC  
 ADDRESS: 3200 Rio Linda Boulevard  
 Sacramento CA 95815  
 LAT/LONG: 38.625387 / 121.445858

CLIENT: Soar Environmental Consulting, Inc.  
 CONTACT: Marcus Patton  
 INQUIRY #: 7287764.2s  
 DATE: March 23, 2023 1:43 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A1**  
**WNW**  
**0 - 1/8 Mile**  
**Higher**

**CA WELLS      CAEDF000006161**

Well ID: T0606701131-MW-9      Well Type: MONITORING  
Source: EDF      Other Name: MW-9  
GAMA PFAS Testing: Not Reported  
Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0606701131&assigned\\_name=MW-9&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606701131&assigned_name=MW-9&store_num=)  
GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0606701131&assigned\\_name=MW-9](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606701131&assigned_name=MW-9)

**A2**  
**WNW**  
**0 - 1/8 Mile**  
**Higher**

**CA WELLS      CAEDF0000079851**

Well ID: T0606701131-MW-1      Well Type: MONITORING  
Source: EDF      Other Name: MW-1  
GAMA PFAS Testing: Not Reported  
Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0606701131&assigned\\_name=MW-1&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606701131&assigned_name=MW-1&store_num=)  
GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0606701131&assigned\\_name=MW-1](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606701131&assigned_name=MW-1)

**A3**  
**SE**  
**0 - 1/8 Mile**  
**Higher**

**CA WELLS      CAEDF0000021625**

Well ID: T0606701131-MW-3      Well Type: MONITORING  
Source: EDF      Other Name: MW-3  
GAMA PFAS Testing: Not Reported  
Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0606701131&assigned\\_name=MW-3&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606701131&assigned_name=MW-3&store_num=)  
GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0606701131&assigned\\_name=MW-3](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606701131&assigned_name=MW-3)

**A4**  
**South**  
**0 - 1/8 Mile**  
**Higher**

**CA WELLS      CAEDF0000119949**

Well ID: T0606701131-MW-2      Well Type: MONITORING  
Source: EDF      Other Name: MW-2  
GAMA PFAS Testing: Not Reported  
Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0606701131&assigned\\_name=MW-2&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606701131&assigned_name=MW-2&store_num=)  
GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0606701131&assigned\\_name=MW-2](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606701131&assigned_name=MW-2)

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A5**  
**ESE**  
**0 - 1/8 Mile**  
**Higher**

**CA WELLS      CAEDF0000092286**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606701131-MW-7  | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW-7       |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701131&amp;assigned_name=MW-7&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701131&amp;assigned_name=MW-7&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701131&amp;assigned_name=MW-7">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701131&amp;assigned_name=MW-7</a>   |             |            |

**A6**  
**SW**  
**0 - 1/8 Mile**  
**Higher**

**CA WELLS      CAEDF0000038535**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606701131-MW-6  | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW-6       |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701131&amp;assigned_name=MW-6&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701131&amp;assigned_name=MW-6&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701131&amp;assigned_name=MW-6">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701131&amp;assigned_name=MW-6</a>   |             |            |

**A7**  
**SE**  
**0 - 1/8 Mile**  
**Lower**

**CA WELLS      CAEDF0000114448**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606701131-MW-4  | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW-4       |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701131&amp;assigned_name=MW-4&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701131&amp;assigned_name=MW-4&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701131&amp;assigned_name=MW-4">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701131&amp;assigned_name=MW-4</a>   |             |            |

**A8**  
**South**  
**0 - 1/8 Mile**  
**Higher**

**CA WELLS      CAEDF0000100701**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606701131-MW-5  | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW-5       |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701131&amp;assigned_name=MW-5&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701131&amp;assigned_name=MW-5&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701131&amp;assigned_name=MW-5">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701131&amp;assigned_name=MW-5</a>   |             |            |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A9**  
**East**  
**0 - 1/8 Mile**  
**Higher**

**CA WELLS      CAEDF0000017252**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606701131-MW-11   | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW-11      |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701131&amp;assigned_name=MW-11&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701131&amp;assigned_name=MW-11&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701131&amp;assigned_name=MW-11">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701131&amp;assigned_name=MW-11</a>   |             |            |

**A10**  
**SSW**  
**0 - 1/8 Mile**  
**Higher**

**CA WELLS      CAEDF0000084798**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606701131-MW-8  | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW-8       |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701131&amp;assigned_name=MW-8&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701131&amp;assigned_name=MW-8&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701131&amp;assigned_name=MW-8">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701131&amp;assigned_name=MW-8</a>   |             |            |

**B11**  
**SE**  
**0 - 1/8 Mile**  
**Higher**

**CA WELLS      CAEDF0000081250**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606701131-MW-10   | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW-10      |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701131&amp;assigned_name=MW-10&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701131&amp;assigned_name=MW-10&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701131&amp;assigned_name=MW-10">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701131&amp;assigned_name=MW-10</a>   |             |            |

**B12**  
**ESE**  
**0 - 1/8 Mile**  
**Higher**

**CA WELLS      CAEDF0000084009**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606701131-MW-12   | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW-12      |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701131&amp;assigned_name=MW-12&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701131&amp;assigned_name=MW-12&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701131&amp;assigned_name=MW-12">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701131&amp;assigned_name=MW-12</a>   |             |            |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**C13**  
**SSW**  
**1/8 - 1/4 Mile**  
**Lower**

**FED USGS      USGS40000189583**

|                        |                                      |                              |              |
|------------------------|--------------------------------------|------------------------------|--------------|
| Organization ID:       | USGS-CA                              | Type:                        | Well         |
| Organization Name:     | USGS California Water Science Center | HUC:                         | 18020111     |
| Monitor Location:      | 009N005E21E002M                      | Drainage Area Units:         | Not Reported |
| Description:           | Not Reported                         | Contrib Drainage Area Units: | Not Reported |
| Drainage Area:         | Not Reported                         | Aquifer Type:                | Not Reported |
| Contrib Drainage Area: | Not Reported                         | Well Depth:                  | 330          |
| Aquifer:               | Central Valley aquifer system        | Well Hole Depth:             | 370          |
| Formation Type:        | Not Reported                         |                              |              |
| Construction Date:     | 19650501                             |                              |              |
| Well Depth Units:      | ft                                   |                              |              |
| Well Hole Depth Units: | ft                                   |                              |              |

**C14**  
**South**  
**1/8 - 1/4 Mile**  
**Lower**

**CA WELLS      CADWR9000039862**

|               |               |                        |                |
|---------------|---------------|------------------------|----------------|
| State Well #: | 09N05E21E002M | Station ID:            | 52237          |
| Well Name:    | SAC-143       | Basin Name:            | North American |
| Well Use:     | Other         | Well Type:             | Single Well    |
| Well Depth:   | 330           | Well Completion Rpt #: | 77994          |

**C15**  
**SSW**  
**1/8 - 1/4 Mile**  
**Lower**

**CA WELLS      CADDW0000014032**

|                           |   |                    |              |
|---------------------------|---|--------------------|--------------|
| Well ID:                  | 3410020-045   | Well Type:         | MUNICIPAL    |
| Source:                   | Department of Health Services   |                    |              |
| Other Name:               | WELL 143  | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-045&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-045&amp;store_num=</a> |                    |              |
| GeoTracker Data:          | Not Reported  |                    |              |

**C16**  
**SSW**  
**1/8 - 1/4 Mile**  
**Higher**

**CA WELLS      9026**

|             |              |             |                       |
|-------------|--------------|-------------|-----------------------|
| Seq:        | 9026         | Prim sta c: | 09N/05E-21E02 M       |
| Frds no:    | 3410020045   | County:     | 34                    |
| District:   | 09           | User id:    | TEN                   |
| System no:  | 3410020      | Water type: | G                     |
| Source nam: | WELL 143     | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude:   | 383720.0     | Longitude:  | 1212645.0             |
| Precision:  | 4            | Status:     | AR                    |
| Comment 1:  | Not Reported | Comment 2:  | Not Reported          |
| Comment 3:  | Not Reported | Comment 4:  | Not Reported          |
| Comment 5:  | Not Reported | Comment 6:  | Not Reported          |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |                               |               |                     |
|--------------|-------------------------------|---------------|---------------------|
| Comment 7:   | Not Reported                  |               |                     |
| System no:   | 3410020                       | System nam:   | Sacramento, City Of |
| Hqname:      | SACRAMENTO CITY-DIV WTR & SWR | Address:      | 1391 35th Avenue    |
| City:        | Sacramento                    | State:        | Ca                  |
| Zip:         | 95822                         | Zip ext:      | Not Reported        |
| Pop serv:    | 374600                        | Connection:   | 120339              |
| Area serve:  | SACRAMENTO MAIN               |               |                     |
| Sample date: | 09-MAY-17                     | Finding:      | 334.                |
| Chemical:    | TOTAL DISSOLVED SOLIDS        | Report units: | MG/L                |
| Dir:         | 0.                            |               |                     |
| Sample date: | 09-MAY-17                     | Finding:      | 165.                |
| Chemical:    | ALKALINITY (TOTAL) AS CaCO3   | Report units: | MG/L                |
| Dir:         | 0.                            |               |                     |
| Sample date: | 09-MAY-17                     | Finding:      | 7.5                 |
| Chemical:    | PH, LABORATORY                | Report units: | Not Reported        |
| Dir:         | 0.                            |               |                     |
| Sample date: | 09-MAY-17                     | Finding:      | 480.                |
| Chemical:    | SPECIFIC CONDUCTANCE          | Report units: | US                  |
| Dir:         | 0.                            |               |                     |
| Sample date: | 09-MAY-17                     | Finding:      | 1.                  |
| Chemical:    | COLOR                         | Report units: | UNITS               |
| Dir:         | 0.                            |               |                     |
| Sample date: | 09-MAY-17                     | Finding:      | 4.5                 |
| Chemical:    | CHROMIUM, HEXAVALENT          | Report units: | UG/L                |
| Dir:         | 1.                            |               |                     |
| Sample date: | 09-MAY-17                     | Finding:      | 30.                 |
| Chemical:    | SODIUM                        | Report units: | MG/L                |
| Dir:         | 0.                            |               |                     |
| Sample date: | 09-MAY-17                     | Finding:      | 23.                 |
| Chemical:    | MAGNESIUM                     | Report units: | MG/L                |
| Dir:         | 0.                            |               |                     |
| Sample date: | 09-MAY-17                     | Finding:      | 30.                 |
| Chemical:    | CALCIUM                       | Report units: | MG/L                |
| Dir:         | 0.                            |               |                     |
| Sample date: | 09-MAY-17                     | Finding:      | 201.                |
| Chemical:    | BICARBONATE ALKALINITY        | Report units: | MG/L                |
| Dir:         | 0.                            |               |                     |
| Sample date: | 09-MAY-17                     | Finding:      | 8.e-002             |
| Chemical:    | TURBIDITY, LABORATORY         | Report units: | NTU                 |
| Dir:         | 0.1                           |               |                     |
| Sample date: | 09-MAY-17                     | Finding:      | 11.6                |
| Chemical:    | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported        |
| Dir:         | 0.                            |               |                     |
| Sample date: | 09-MAY-17                     | Finding:      | 1.8                 |
| Chemical:    | NITRATE (AS N)                | Report units: | MG/L                |
| Dir:         | 0.4                           |               |                     |
| Sample date: | 09-MAY-17                     | Finding:      | 11.7                |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |                                       |               |         |
|--------------|---------------------------------------|---------------|---------|
| Chemical:    | SULFATE                               | Report units: | MG/L    |
| Dir:         | 0.5                                   |               |         |
| Sample date: | 09-MAY-17                             | Finding:      | 1.8     |
| Chemical:    | NITRATE + NITRITE (AS N)              | Report units: | MG/L    |
| Dir:         | 0.4                                   |               |         |
| Sample date: | 09-MAY-17                             | Finding:      | 47.1    |
| Chemical:    | CHLORIDE                              | Report units: | MG/L    |
| Dir:         | 0.                                    |               |         |
| Sample date: | 09-MAY-17                             | Finding:      | 193.    |
| Chemical:    | HARDNESS (TOTAL) AS CaCO <sub>3</sub> | Report units: | MG/L    |
| Dir:         | 0.                                    |               |         |
| Sample date: | 11-OCT-16                             | Finding:      | 2.3     |
| Chemical:    | NITRATE (AS N)                        | Report units: | MG/L    |
| Dir:         | 0.4                                   |               |         |
| Sample date: | 26-JUL-16                             | Finding:      | 3.1     |
| Chemical:    | NITRATE (AS N)                        | Report units: | MG/L    |
| Dir:         | 0.4                                   |               |         |
| Sample date: | 26-JUL-16                             | Finding:      | 3.1     |
| Chemical:    | NITRATE + NITRITE (AS N)              | Report units: | MG/L    |
| Dir:         | 0.4                                   |               |         |
| Sample date: | 16-DEC-14                             | Finding:      | 4.2     |
| Chemical:    | CHROMIUM, HEXAVALENT                  | Report units: | UG/L    |
| Dir:         | 1.                                    |               |         |
| Sample date: | 14-OCT-14                             | Finding:      | 8.1     |
| Chemical:    | NITRATE (AS NO <sub>3</sub> )         | Report units: | MG/L    |
| Dir:         | 2.                                    |               |         |
| Sample date: | 08-SEP-14                             | Finding:      | 1840.   |
| Chemical:    | NITRATE + NITRITE (AS N)              | Report units: | MG/L    |
| Dir:         | 0.4                                   |               |         |
| Sample date: | 08-SEP-14                             | Finding:      | 9.e-002 |
| Chemical:    | TURBIDITY, LABORATORY                 | Report units: | NTU     |
| Dir:         | 0.1                                   |               |         |
| Sample date: | 08-SEP-14                             | Finding:      | 342.    |
| Chemical:    | TOTAL DISSOLVED SOLIDS                | Report units: | MG/L    |
| Dir:         | 0.                                    |               |         |
| Sample date: | 08-SEP-14                             | Finding:      | 106.    |
| Chemical:    | BARIUM                                | Report units: | UG/L    |
| Dir:         | 100.                                  |               |         |
| Sample date: | 08-SEP-14                             | Finding:      | 2.3     |
| Chemical:    | ARSENIC                               | Report units: | UG/L    |
| Dir:         | 2.                                    |               |         |
| Sample date: | 08-SEP-14                             | Finding:      | 0.17    |
| Chemical:    | FLUORIDE (F) (NATURAL-SOURCE)         | Report units: | MG/L    |
| Dir:         | 0.1                                   |               |         |
| Sample date: | 08-SEP-14                             | Finding:      | 11.5    |
| Chemical:    | SULFATE                               | Report units: | MG/L    |
| Dir:         | 0.5                                   |               |         |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |   |               |              |
|--------------|---|---------------|--------------|
| Sample date: | 08-SEP-14                               | Finding:      | 45.7         |
| Chemical:    | CHLORIDE                                | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 2.6          |
| Chemical:    | POTASSIUM                               | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 28.3         |
| Chemical:    | SODIUM                                  | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 21.7         |
| Chemical:    | MAGNESIUM                               | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 26.7         |
| Chemical:    | CALCIUM                                 | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 174.         |
| Chemical:    | HARDNESS (TOTAL) AS CaCO <sub>3</sub>   | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 156.         |
| Chemical:    | BICARBONATE ALKALINITY                  | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 156.         |
| Chemical:    | ALKALINITY (TOTAL) AS CaCO <sub>3</sub> | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 7.           |
| Chemical:    | PH, LABORATORY                          | Report units: | Not Reported |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 480.         |
| Chemical:    | SPECIFIC CONDUCTANCE                    | Report units: | US           |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 1.           |
| Chemical:    | COLOR                                   | Report units: | UNITS        |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 12.          |
| Chemical:    | AGGRSSIVE INDEX (CORROSIVITY)           | Report units: | Not Reported |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 30.          |
| Chemical:    | CALCIUM                                 | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 200.         |
| Chemical:    | BICARBONATE ALKALINITY                  | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 160.         |
| Chemical:    | ALKALINITY (TOTAL) AS CaCO <sub>3</sub> | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 7.72         |
| Chemical:    | PH, LABORATORY                          | Report units: | Not Reported |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |                            |               |       |
|--------------|----------------------------|---------------|-------|
| Dir:         | 0.                         |               |       |
| Sample date: | 08-SEP-14                  | Finding:      | 8.2   |
| Chemical:    | NITRATE (AS NO3)           | Report units: | MG/L  |
| Dir:         | 2.                         |               |       |
| Sample date: | 15-OCT-13                  | Finding:      | 7.8   |
| Chemical:    | NITRATE (AS NO3)           | Report units: | MG/L  |
| Dir:         | 2.                         |               |       |
| Sample date: | 10-OCT-12                  | Finding:      | 7.3   |
| Chemical:    | NITRATE (AS NO3)           | Report units: | MG/L  |
| Dir:         | 2.                         |               |       |
| Sample date: | 10-OCT-12                  | Finding:      | 0.497 |
| Chemical:    | RADIUM 228 MDA95           | Report units: | PCI/L |
| Dir:         | 0.                         |               |       |
| Sample date: | 10-OCT-12                  | Finding:      | 1.7   |
| Chemical:    | GROSS ALPHA MDA95          | Report units: | PCI/L |
| Dir:         | 0.                         |               |       |
| Sample date: | 10-OCT-12                  | Finding:      | 1.39  |
| Chemical:    | RADIUM 228 COUNTING ERROR  | Report units: | PCI/L |
| Dir:         | 0.                         |               |       |
| Sample date: | 10-OCT-12                  | Finding:      | 1.36  |
| Chemical:    | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dir:         | 0.                         |               |       |

**C17  
SSW  
1/8 - 1/4 Mile  
Higher**

**CA WELLS      CALLNL000001369**

|                           |  |                    |                |
|---------------------------|--|--------------------|----------------|
| Well ID:                  | 101241                                 | Well Type:         | MUNICIPAL      |
| Source:                   | Lawrence Livermore National Laboratory |                    |                |
| Other Name:               | 09N/05E-21E02 M                        | GAMA PFAS Testing: | Not Reported   |
| Groundwater Quality Data: | Not Reported                           |                    |                |
| GeoTracker Data:          | Not Reported                           |                    |                |
| Chemical:                 | Helium-4                               | Results:           | .00000146316   |
| Units:                    | cm3STP/g                               | Date:              | 11/14/2002     |
| Chemical:                 | Xenon                                  | Results:           | .0000000117778 |
| Units:                    | cm3STP/g                               | Date:              | 11/14/2002     |
| Chemical:                 | Tritium (Hydrogen 3)                   | Results:           | 4.02           |
| Units:                    | pCi/L                                  | Date:              | 12/12/2002     |
| Chemical:                 | Argon                                  | Results:           | .000394526     |
| Units:                    | cm3STP/g                               | Date:              | 11/14/2002     |
| Chemical:                 | Neon                                   | Results:           | .000000259675  |
| Units:                    | cm3STP/g                               | Date:              | 11/14/2002     |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|           |                   |          |                |
|-----------|-------------------|----------|----------------|
| Chemical: | Krypton           | Results: | .0000000845513 |
| Units:    | cm3STP/g          | Date:    | 11/14/2002     |
|           |                   |          |                |
| Chemical: | Helium-3/Helium-4 | Results: | .000000477334  |
| Units:    | atom ratio        | Date:    | 11/14/2002     |

**18  
North  
1/4 - 1/2 Mile  
Higher**

**CA WELLS    9010**

|             |              |             |                       |
|-------------|--------------|-------------|-----------------------|
| Seq:        | 9010         | Prim sta c: | 09N/05E-16N03 M       |
| Frds no:    | 3400196001   | County:     | 34                    |
| District:   | 64           | User id:    | 34C                   |
| System no:  | 3400196      | Water type: | G                     |
| Source nam: | WELL A       | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude:   | 383747.0     | Longitude:  | 1212643.0             |
| Precision:  | 3            | Status:     | AR                    |
| Comment 1:  | Not Reported | Comment 2:  | Not Reported          |
| Comment 3:  | Not Reported | Comment 4:  | Not Reported          |
| Comment 5:  | Not Reported | Comment 6:  | Not Reported          |
| Comment 7:  | Not Reported |             |                       |
|             |              |             |                       |
| System no:  | 3400196      | System nam: | Davis Water System    |
| 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 |             |                       |

**D19  
SSE  
1/4 - 1/2 Mile  
Higher**

**CA WELLS    9025**

|              |                               |               |                              |
|--------------|-------------------------------|---------------|------------------------------|
| Seq:         | 9025                          | Prim sta c:   | 09N/05E-21E01 M              |
| Frds no:     | 3410020027                    | County:       | 34                           |
| District:    | 09                            | User id:      | TEN                          |
| System no:   | 3410020                       | Water type:   | G                            |
| Source nam:  | WELL 120                      | Station ty:   | WELL/AMBNT/MUN/INTAKE/SUPPLY |
| Latitude:    | 383717.0                      | Longitude:    | 1212634.0                    |
| Precision:   | 3                             | Status:       | AR                           |
| Comment 1:   | AT 2938 BRANCH ST             | 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:   | 3410020                       | System nam:   | Sacramento, City Of          |
| Hqname:      | SACRAMENTO CITY-DIV WTR & SWR | Address:      | 1391 35th Avenue             |
| City:        | Sacramento                    | State:        | Ca                           |
| Zip:         | 95822                         | Zip ext:      | Not Reported                 |
| Pop serv:    | 374600                        | Connection:   | 120339                       |
| Area serve:  | SACRAMENTO MAIN               |               |                              |
|              |                               |               |                              |
| Sample date: | 26-FEB-18                     | Finding:      | 0.2                          |
| Chemical:    | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L                         |
| Dir:         | 0.1                           |               |                              |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |   |               |              |
|--------------|---|---------------|--------------|
| Sample date: | 26-FEB-18                               | Finding:      | 1.           |
| Chemical:    | NITRATE (AS N)                          | Report units: | MG/L         |
| Dir:         | 0.4                                     |               |              |
| Sample date: | 08-MAY-17                               | Finding:      | 142.         |
| Chemical:    | BICARBONATE ALKALINITY                  | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-MAY-17                               | Finding:      | 116.         |
| Chemical:    | ALKALINITY (TOTAL) AS CaCO <sub>3</sub> | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-MAY-17                               | Finding:      | 7.7          |
| Chemical:    | PH, LABORATORY                          | Report units: | Not Reported |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-MAY-17                               | Finding:      | 420.         |
| Chemical:    | SPECIFIC CONDUCTANCE                    | Report units: | US           |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-MAY-17                               | Finding:      | 1.           |
| Chemical:    | COLOR                                   | Report units: | UNITS        |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-MAY-17                               | Finding:      | 3.1          |
| Chemical:    | CHROMIUM, HEXAVALENT                    | Report units: | UG/L         |
| Dir:         | 1.                                      |               |              |
| Sample date: | 08-MAY-17                               | Finding:      | 39.          |
| Chemical:    | SODIUM                                  | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-MAY-17                               | Finding:      | 15.          |
| Chemical:    | MAGNESIUM                               | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-MAY-17                               | Finding:      | 24.          |
| Chemical:    | CALCIUM                                 | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-MAY-17                               | Finding:      | 8.e-002      |
| Chemical:    | TURBIDITY, LABORATORY                   | Report units: | NTU          |
| Dir:         | 0.1                                     |               |              |
| Sample date: | 08-MAY-17                               | Finding:      | 133.         |
| Chemical:    | HARDNESS (TOTAL) AS CaCO <sub>3</sub>   | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-MAY-17                               | Finding:      | 0.8          |
| Chemical:    | NITRATE (AS N)                          | Report units: | MG/L         |
| Dir:         | 0.4                                     |               |              |
| Sample date: | 08-MAY-17                               | Finding:      | 11.6         |
| Chemical:    | AGGRSSIVE INDEX (CORROSIVITY)           | Report units: | Not Reported |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-MAY-17                               | Finding:      | 0.8          |
| Chemical:    | NITRATE + NITRITE (AS N)                | Report units: | MG/L         |
| Dir:         | 0.4                                     |               |              |
| Sample date: | 08-MAY-17                               | Finding:      | 59.4         |
| Chemical:    | CHLORIDE                                | Report units: | MG/L         |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |                               |               |         |
|--------------|-------------------------------|---------------|---------|
| Dir:         | 0.                            |               |         |
| Sample date: | 08-MAY-17                     | Finding:      | 5.2     |
| Chemical:    | SULFATE                       | Report units: | MG/L    |
| Dir:         | 0.5                           |               |         |
| Sample date: | 08-MAY-17                     | Finding:      | 294.    |
| Chemical:    | TOTAL DISSOLVED SOLIDS        | Report units: | MG/L    |
| Dir:         | 0.                            |               |         |
| Sample date: | 11-OCT-16                     | Finding:      | 0.8     |
| Chemical:    | NITRATE (AS N)                | Report units: | MG/L    |
| Dir:         | 0.4                           |               |         |
| Sample date: | 15-OCT-15                     | Finding:      | 1.1     |
| Chemical:    | NITRATE (AS N)                | Report units: | MG/L    |
| Dir:         | 0.4                           |               |         |
| Sample date: | 15-OCT-15                     | Finding:      | 1100.   |
| Chemical:    | NITRATE + NITRITE (AS N)      | Report units: | MG/L    |
| Dir:         | 0.4                           |               |         |
| Sample date: | 15-OCT-15                     | Finding:      | 0.14    |
| Chemical:    | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L    |
| Dir:         | 0.1                           |               |         |
| Sample date: | 16-DEC-14                     | Finding:      | 3.3     |
| Chemical:    | CHROMIUM, HEXAVALENT          | Report units: | UG/L    |
| Dir:         | 1.                            |               |         |
| Sample date: | 14-OCT-14                     | Finding:      | 4.2     |
| Chemical:    | NITRATE (AS NO3)              | Report units: | MG/L    |
| Dir:         | 2.                            |               |         |
| Sample date: | 08-SEP-14                     | Finding:      | 8.e-002 |
| Chemical:    | TURBIDITY, LABORATORY         | Report units: | NTU     |
| Dir:         | 0.1                           |               |         |
| Sample date: | 08-SEP-14                     | Finding:      | 4.5     |
| Chemical:    | NITRATE (AS NO3)              | Report units: | MG/L    |
| Dir:         | 2.                            |               |         |
| Sample date: | 08-SEP-14                     | Finding:      | 286.    |
| Chemical:    | TOTAL DISSOLVED SOLIDS        | Report units: | MG/L    |
| Dir:         | 0.                            |               |         |
| Sample date: | 08-SEP-14                     | Finding:      | 2.3     |
| Chemical:    | ARSENIC                       | Report units: | UG/L    |
| Dir:         | 2.                            |               |         |
| Sample date: | 08-SEP-14                     | Finding:      | 0.18    |
| Chemical:    | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L    |
| Dir:         | 0.1                           |               |         |
| Sample date: | 08-SEP-14                     | Finding:      | 5.9     |
| Chemical:    | SULFATE                       | Report units: | MG/L    |
| Dir:         | 0.5                           |               |         |
| Sample date: | 08-SEP-14                     | Finding:      | 55.4    |
| Chemical:    | CHLORIDE                      | Report units: | MG/L    |
| Dir:         | 0.                            |               |         |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |   |               |              |
|--------------|---|---------------|--------------|
| Sample date: | 08-SEP-14                               | Finding:      | 2.9          |
| Chemical:    | POTASSIUM                               | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 33.6         |
| Chemical:    | SODIUM                                  | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 14.3         |
| Chemical:    | MAGNESIUM                               | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 21.          |
| Chemical:    | CALCIUM                                 | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 131.         |
| Chemical:    | HARDNESS (TOTAL) AS CaCO <sub>3</sub>   | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 112.         |
| Chemical:    | BICARBONATE ALKALINITY                  | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 112.         |
| Chemical:    | ALKALINITY (TOTAL) AS CaCO <sub>3</sub> | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 7.3          |
| Chemical:    | PH, LABORATORY                          | Report units: | Not Reported |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 410.         |
| Chemical:    | SPECIFIC CONDUCTANCE                    | Report units: | US           |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 1.           |
| Chemical:    | COLOR                                   | Report units: | UNITS        |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 12.          |
| Chemical:    | AGGRSSIVE INDEX (CORROSIVITY)           | Report units: | Not Reported |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 23.          |
| Chemical:    | CALCIUM                                 | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 140.         |
| Chemical:    | BICARBONATE ALKALINITY                  | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 120.         |
| Chemical:    | ALKALINITY (TOTAL) AS CaCO <sub>3</sub> | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 7.87         |
| Chemical:    | PH, LABORATORY                          | Report units: | Not Reported |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 1060.        |
| Chemical:    | NITRATE + NITRITE (AS N)                | Report units: | MG/L         |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |                               |               |       |
|--------------|-------------------------------|---------------|-------|
| Dir:         | 0.4                           |               |       |
| Sample date: | 15-OCT-13                     | Finding:      | 4.2   |
| Chemical:    | NITRATE (AS NO3)              | Report units: | MG/L  |
| Dir:         | 2.                            |               |       |
| Sample date: | 10-OCT-12                     | Finding:      | 0.499 |
| Chemical:    | RADIUM 228 MDA95              | Report units: | PCI/L |
| Dir:         | 0.                            |               |       |
| Sample date: | 10-OCT-12                     | Finding:      | 1.29  |
| Chemical:    | RADIUM 228 COUNTING ERROR     | Report units: | PCI/L |
| Dir:         | 0.                            |               |       |
| Sample date: | 10-OCT-12                     | Finding:      | 1.57  |
| Chemical:    | GROSS ALPHA COUNTING ERROR    | Report units: | PCI/L |
| Dir:         | 0.                            |               |       |
| Sample date: | 10-OCT-12                     | Finding:      | 0.12  |
| Chemical:    | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L  |
| Dir:         | 0.1                           |               |       |
| Sample date: | 10-OCT-12                     | Finding:      | 4.    |
| Chemical:    | NITRATE (AS NO3)              | Report units: | MG/L  |
| Dir:         | 2.                            |               |       |
| Sample date: | 10-OCT-12                     | Finding:      | 1.97  |
| Chemical:    | GROSS ALPHA MDA95             | Report units: | PCI/L |
| Dir:         | 0.                            |               |       |

**D20  
SSE  
1/4 - 1/2 Mile  
Higher**

**CA WELLS      CALLNL000001410**

|                           |  |                    |                |
|---------------------------|--|--------------------|----------------|
| Well ID:                  | 101240                                 | Well Type:         | MUNICIPAL      |
| Source:                   | Lawrence Livermore National Laboratory |                    |                |
| Other Name:               | 09N/05E-21E01 M                        | GAMA PFAS Testing: | Not Reported   |
| Groundwater Quality Data: | Not Reported                           |                    |                |
| GeoTracker Data:          | Not Reported                           |                    |                |
| Chemical:                 | Argon                                  | Results:           | .000469768     |
| Units:                    | cm3STP/g                               | Date:              | 11/14/2002     |
| Chemical:                 | Helium-4                               | Results:           | .00000250961   |
| Units:                    | cm3STP/g                               | Date:              | 11/14/2002     |
| Chemical:                 | Xenon                                  | Results:           | .0000000120872 |
| Units:                    | cm3STP/g                               | Date:              | 11/14/2002     |
| Chemical:                 | Neon                                   | Results:           | .000000348274  |
| Units:                    | cm3STP/g                               | Date:              | 11/14/2002     |
| Chemical:                 | Helium-3/Helium-4                      | Results:           | .000000498829  |
| Units:                    | atom ratio                             | Date:              | 11/14/2002     |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|           |          |          |                |
|-----------|----------|----------|----------------|
| Chemical: | Krypton  | Results: | .0000000944306 |
| Units:    | cm3STP/g | Date:    | 11/14/2002     |

|           |                      |          |            |
|-----------|----------------------|----------|------------|
| Chemical: | Tritium (Hydrogen 3) | Results: | .16        |
| Units:    | pCi/L                | Date:    | 02/20/2003 |

**D21  
SSE  
1/4 - 1/2 Mile  
Higher**

**FED USGS      USGS40000189580**

|                        |                                      |                             |              |
|------------------------|--------------------------------------|-----------------------------|--------------|
| Organization ID:       | USGS-CA                              |                             |              |
| Organization Name:     | USGS California Water Science Center |                             |              |
| Monitor Location:      | 009N005E21E001M                      | Type:                       | Well         |
| Description:           | Not Reported                         | HUC:                        | 18020111     |
| 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:                 | 440          |
| Well Depth Units:      | ft                                   | Well Hole Depth:            | 440          |
| Well Hole Depth Units: | ft                                   |                             |              |

**D22  
SSE  
1/4 - 1/2 Mile  
Higher**

**CA WELLS      CADDW0000017382**

|                           |   |                    |              |
|---------------------------|---|--------------------|--------------|
| Well ID:                  | 3410020-027   | Well Type:         | MUNICIPAL    |
| Source:                   | Department of Health Services   |                    |              |
| Other Name:               | WELL 120  | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-027&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-027&amp;store_num=</a> |                    |              |
| GeoTracker Data:          | Not Reported  |                    |              |

**D23  
SSE  
1/4 - 1/2 Mile  
Higher**

**CA WELLS      CADWR9000039858**

|               |               |                        |                |
|---------------|---------------|------------------------|----------------|
| State Well #: | 09N05E21E001M | Station ID:            | 52225          |
| Well Name:    | SAC-120       | Basin Name:            | North American |
| Well Use:     | Other         | Well Type:             | Single Well    |
| Well Depth:   | 440           | Well Completion Rpt #: | Not Reported   |

**24  
SE  
1/4 - 1/2 Mile  
Higher**

**CA WELLS      CADDW0000001022**

|             |                               |                    |              |
|-------------|-------------------------------|--------------------|--------------|
| Well ID:    | 3400196-001                   | Well Type:         | MUNICIPAL    |
| Source:     | Department of Health Services |                    |              |
| Other Name: | MAIN WELL                     | GAMA PFAS Testing: | Not Reported |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp\\_date=&global\\_id=&assigned\\_name=3400196-001&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3400196-001&store_num=)  
 GeoTracker Data: Not Reported

**E25  
North  
1/2 - 1 Mile  
Higher**

**CA WELLS      CAEDF0000068068**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606792237-MW4   | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW4        |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606792237&amp;assigned_name=MW4&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606792237&amp;assigned_name=MW4&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606792237&amp;assigned_name=MW4">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606792237&amp;assigned_name=MW4</a>   |             |            |

**F26  
West  
1/2 - 1 Mile  
Higher**

**CA WELLS      CADDW0000016612**

|                           |   |                    |              |
|---------------------------|---|--------------------|--------------|
| Well ID:                  | 3410020-031   | Well Type:         | MUNICIPAL    |
| Source:                   | Department of Health Services   |                    |              |
| Other Name:               | WELL 125 - ABANDONED  | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-031&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-031&amp;store_num=</a> |                    |              |
| GeoTracker Data:          | Not Reported  |                    |              |

**E27  
North  
1/2 - 1 Mile  
Higher**

**CA WELLS      CAEDF0000110506**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606792237-MW3   | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW3        |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606792237&amp;assigned_name=MW3&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606792237&amp;assigned_name=MW3&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606792237&amp;assigned_name=MW3">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606792237&amp;assigned_name=MW3</a>   |             |            |

**E28  
North  
1/2 - 1 Mile  
Higher**

**CA WELLS      CAEDF0000068298**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606792237-MW2   | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW2        |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606792237&amp;assigned_name=MW2&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606792237&amp;assigned_name=MW2&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606792237&amp;assigned_name=MW2">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606792237&amp;assigned_name=MW2</a>   |             |            |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**E29**  
**North**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000094543**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606792237-MW1   | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW1        |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606792237&amp;assigned_name=MW1&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606792237&amp;assigned_name=MW1&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606792237&amp;assigned_name=MW1">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606792237&amp;assigned_name=MW1</a>   |             |            |

**G30**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      9011**

|             |              |             |                       |
|-------------|--------------|-------------|-----------------------|
| Seq:        | 9011         | Prim sta c: | 09N/05E-16Q01 M       |
| Frds no:    | 3410020032   | County:     | 34                    |
| District:   | 09           | User id:    | TEN                   |
| System no:  | 3410020      | Water type: | G                     |
| Source nam: | WELL 126     | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude:   | 383745.0     | Longitude:  | 1212610.0             |
| Precision:  | 4            | Status:     | AR                    |
| Comment 1:  | Not Reported | Comment 2:  | Not Reported          |
| Comment 3:  | Not Reported | Comment 4:  | Not Reported          |
| Comment 5:  | Not Reported | Comment 6:  | Not Reported          |
| Comment 7:  | Not Reported |             |                       |

|             |                               |             |                     |
|-------------|-------------------------------|-------------|---------------------|
| System no:  | 3410020                       | System nam: | Sacramento, City Of |
| Hqname:     | SACRAMENTO CITY-DIV WTR & SWR | Address:    | 1391 35th Avenue    |
| City:       | Sacramento                    | State:      | Ca                  |
| Zip:        | 95822                         | Zip ext:    | Not Reported        |
| Pop serv:   | 374600                        | Connection: | 120339              |
| Area serve: | SACRAMENTO MAIN               |             |                     |

|              |                        |               |      |
|--------------|------------------------|---------------|------|
| Sample date: | 09-OCT-17              | Finding:      | 286. |
| Chemical:    | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dir:         | 0.                     |               |      |

|              |           |               |      |
|--------------|-----------|---------------|------|
| Sample date: | 20-SEP-17 | Finding:      | 24.  |
| Chemical:    | CALCIUM   | Report units: | MG/L |
| Dir:         | 0.        |               |      |

|              |           |               |      |
|--------------|-----------|---------------|------|
| Sample date: | 24-AUG-17 | Finding:      | 24.  |
| Chemical:    | SODIUM    | Report units: | MG/L |
| Dir:         | 0.        |               |      |

|              |           |               |      |
|--------------|-----------|---------------|------|
| Sample date: | 24-AUG-17 | Finding:      | 17.  |
| Chemical:    | MAGNESIUM | Report units: | MG/L |
| Dir:         | 0.        |               |      |

|              |                          |               |      |
|--------------|--------------------------|---------------|------|
| Sample date: | 24-AUG-17                | Finding:      | 1.9  |
| Chemical:    | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dir:         | 0.4                      |               |      |

|              |           |          |      |
|--------------|-----------|----------|------|
| Sample date: | 24-AUG-17 | Finding: | 11.5 |
|--------------|-----------|----------|------|

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                                   |  |                           |                     |
|-----------------------------------|--|---------------------------|---------------------|
| Chemical:<br>Dir:                 | AGGRSSIVE INDEX (CORROSIVITY)<br>0.            | Report units:             | Not Reported        |
| Sample date:<br>Chemical:<br>Dir: | 24-AUG-17<br>TURBIDITY, LABORATORY<br>0.1      | Finding:<br>Report units: | 7.e-002<br>NTU      |
| Sample date:<br>Chemical:<br>Dir: | 24-AUG-17<br>CHROMIUM, HEXAVALENT<br>1.        | Finding:<br>Report units: | 5.1<br>UG/L         |
| Sample date:<br>Chemical:<br>Dir: | 24-AUG-17<br>ARSENIC<br>2.                     | Finding:<br>Report units: | 3.<br>UG/L          |
| Sample date:<br>Chemical:<br>Dir: | 24-AUG-17<br>COLOR<br>0.                       | Finding:<br>Report units: | 1.<br>UNITS         |
| Sample date:<br>Chemical:<br>Dir: | 24-AUG-17<br>SPECIFIC CONDUCTANCE<br>0.        | Finding:<br>Report units: | 370.<br>US          |
| Sample date:<br>Chemical:<br>Dir: | 24-AUG-17<br>PH, LABORATORY<br>0.              | Finding:<br>Report units: | 7.6<br>Not Reported |
| Sample date:<br>Chemical:<br>Dir: | 24-AUG-17<br>ALKALINITY (TOTAL) AS CaCO3<br>0. | Finding:<br>Report units: | 121.<br>MG/L        |
| Sample date:<br>Chemical:<br>Dir: | 24-AUG-17<br>BICARBONATE ALKALINITY<br>0.      | Finding:<br>Report units: | 148.<br>MG/L        |
| Sample date:<br>Chemical:<br>Dir: | 24-AUG-17<br>NITRATE (AS N)<br>0.4             | Finding:<br>Report units: | 1.9<br>MG/L         |
| Sample date:<br>Chemical:<br>Dir: | 24-AUG-17<br>HARDNESS (TOTAL) AS CaCO3<br>0.   | Finding:<br>Report units: | 138.<br>MG/L        |
| Sample date:<br>Chemical:<br>Dir: | 24-AUG-17<br>CHLORIDE<br>0.                    | Finding:<br>Report units: | 34.<br>MG/L         |
| Sample date:<br>Chemical:<br>Dir: | 24-AUG-17<br>SULFATE<br>0.5                    | Finding:<br>Report units: | 8.3<br>MG/L         |
| Sample date:<br>Chemical:<br>Dir: | 11-OCT-16<br>NITRATE (AS N)<br>0.4             | Finding:<br>Report units: | 1.8<br>MG/L         |
| Sample date:<br>Chemical:<br>Dir: | 15-OCT-15<br>NITRATE (AS N)<br>0.4             | Finding:<br>Report units: | 1.8<br>MG/L         |
| Sample date:<br>Chemical:<br>Dir: | 15-OCT-15<br>NITRATE + NITRITE (AS N)<br>0.4   | Finding:<br>Report units: | 1810.<br>MG/L       |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |                               |               |              |
|--------------|-------------------------------|---------------|--------------|
| Sample date: | 16-DEC-14                     | Finding:      | 4.6          |
| Chemical:    | CHROMIUM, HEXAVALENT          | Report units: | UG/L         |
| Dir:         | 1.                            |               |              |
| Sample date: | 14-OCT-14                     | Finding:      | 7.5          |
| Chemical:    | NITRATE (AS NO3)              | Report units: | MG/L         |
| Dir:         | 2.                            |               |              |
| Sample date: | 08-SEP-14                     | Finding:      | 7.89         |
| Chemical:    | PH, LABORATORY                | Report units: | Not Reported |
| Dir:         | 0.                            |               |              |
| Sample date: | 08-SEP-14                     | Finding:      | 120.         |
| Chemical:    | ALKALINITY (TOTAL) AS CaCO3   | Report units: | MG/L         |
| Dir:         | 0.                            |               |              |
| Sample date: | 08-SEP-14                     | Finding:      | 150.         |
| Chemical:    | BICARBONATE ALKALINITY        | Report units: | MG/L         |
| Dir:         | 0.                            |               |              |
| Sample date: | 08-SEP-14                     | Finding:      | 23.          |
| Chemical:    | CALCIUM                       | Report units: | MG/L         |
| Dir:         | 0.                            |               |              |
| Sample date: | 08-SEP-14                     | Finding:      | 12.          |
| Chemical:    | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dir:         | 0.                            |               |              |
| Sample date: | 08-SEP-14                     | Finding:      | 1.           |
| Chemical:    | COLOR                         | Report units: | UNITS        |
| Dir:         | 0.                            |               |              |
| Sample date: | 08-SEP-14                     | Finding:      | 380.         |
| Chemical:    | SPECIFIC CONDUCTANCE          | Report units: | US           |
| Dir:         | 0.                            |               |              |
| Sample date: | 08-SEP-14                     | Finding:      | 7.           |
| Chemical:    | PH, LABORATORY                | Report units: | Not Reported |
| Dir:         | 0.                            |               |              |
| Sample date: | 08-SEP-14                     | Finding:      | 120.         |
| Chemical:    | ALKALINITY (TOTAL) AS CaCO3   | Report units: | MG/L         |
| Dir:         | 0.                            |               |              |
| Sample date: | 08-SEP-14                     | Finding:      | 120.         |
| Chemical:    | BICARBONATE ALKALINITY        | Report units: | MG/L         |
| Dir:         | 0.                            |               |              |
| Sample date: | 08-SEP-14                     | Finding:      | 136.         |
| Chemical:    | HARDNESS (TOTAL) AS CaCO3     | Report units: | MG/L         |
| Dir:         | 0.                            |               |              |
| Sample date: | 08-SEP-14                     | Finding:      | 20.9         |
| Chemical:    | CALCIUM                       | Report units: | MG/L         |
| Dir:         | 0.                            |               |              |
| Sample date: | 08-SEP-14                     | Finding:      | 17.4         |
| Chemical:    | MAGNESIUM                     | Report units: | MG/L         |
| Dir:         | 0.                            |               |              |
| Sample date: | 08-SEP-14                     | Finding:      | 23.4         |
| Chemical:    | SODIUM                        | Report units: | MG/L         |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |                               |               |         |
|--------------|-------------------------------|---------------|---------|
| Dir:         | 0.                            |               |         |
| Sample date: | 08-SEP-14                     | Finding:      | 2.2     |
| Chemical:    | POTASSIUM                     | Report units: | MG/L    |
| Dir:         | 0.                            |               |         |
| Sample date: | 08-SEP-14                     | Finding:      | 37.1    |
| Chemical:    | CHLORIDE                      | Report units: | MG/L    |
| Dir:         | 0.                            |               |         |
| Sample date: | 08-SEP-14                     | Finding:      | 10.3    |
| Chemical:    | SULFATE                       | Report units: | MG/L    |
| Dir:         | 0.5                           |               |         |
| Sample date: | 08-SEP-14                     | Finding:      | 0.15    |
| Chemical:    | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L    |
| Dir:         | 0.1                           |               |         |
| Sample date: | 08-SEP-14                     | Finding:      | 2.6     |
| Chemical:    | ARSENIC                       | Report units: | UG/L    |
| Dir:         | 2.                            |               |         |
| Sample date: | 08-SEP-14                     | Finding:      | 285.    |
| Chemical:    | TOTAL DISSOLVED SOLIDS        | Report units: | MG/L    |
| Dir:         | 0.                            |               |         |
| Sample date: | 08-SEP-14                     | Finding:      | 7.7     |
| Chemical:    | NITRATE (AS NO3)              | Report units: | MG/L    |
| Dir:         | 2.                            |               |         |
| Sample date: | 08-SEP-14                     | Finding:      | 8.e-002 |
| Chemical:    | TURBIDITY, LABORATORY         | Report units: | NTU     |
| Dir:         | 0.1                           |               |         |
| Sample date: | 08-SEP-14                     | Finding:      | 1740.   |
| Chemical:    | NITRATE + NITRITE (AS N)      | Report units: | MG/L    |
| Dir:         | 0.4                           |               |         |
| Sample date: | 08-JUL-14                     | Finding:      | 177.7   |
| Chemical:    | IRON                          | Report units: | UG/L    |
| Dir:         | 100.                          |               |         |
| Sample date: | 06-JAN-14                     | Finding:      | 169.6   |
| Chemical:    | IRON                          | Report units: | UG/L    |
| Dir:         | 100.                          |               |         |
| Sample date: | 15-OCT-13                     | Finding:      | 232.    |
| Chemical:    | IRON                          | Report units: | UG/L    |
| Dir:         | 100.                          |               |         |
| Sample date: | 12-AUG-13                     | Finding:      | 331.7   |
| Chemical:    | IRON                          | Report units: | UG/L    |
| Dir:         | 100.                          |               |         |
| Sample date: | 12-JUN-13                     | Finding:      | 24.     |
| Chemical:    | CALCIUM                       | Report units: | MG/L    |
| Dir:         | 0.                            |               |         |
| Sample date: | 12-JUN-13                     | Finding:      | 24.     |
| Chemical:    | MAGNESIUM                     | Report units: | MG/L    |
| Dir:         | 0.                            |               |         |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |                            |               |       |
|--------------|----------------------------|---------------|-------|
| Sample date: | 12-JUN-13                  | Finding:      | 17.   |
| Chemical:    | SODIUM                     | Report units: | MG/L  |
| Dir:         | 0.                         |               |       |
| Sample date: | 12-JUN-13                  | Finding:      | 2.    |
| Chemical:    | POTASSIUM                  | Report units: | MG/L  |
| Dir:         | 0.                         |               |       |
| Sample date: | 12-JUN-13                  | Finding:      | 3.    |
| Chemical:    | ARSENIC                    | Report units: | UG/L  |
| Dir:         | 2.                         |               |       |
| Sample date: | 12-JUN-13                  | Finding:      | 107.  |
| Chemical:    | BARIUM                     | Report units: | UG/L  |
| Dir:         | 100.                       |               |       |
| Sample date: | 12-JUN-13                  | Finding:      | 75.   |
| Chemical:    | COPPER                     | Report units: | UG/L  |
| Dir:         | 50.                        |               |       |
| Sample date: | 12-JUN-13                  | Finding:      | 345.  |
| Chemical:    | IRON                       | Report units: | UG/L  |
| Dir:         | 100.                       |               |       |
| Sample date: | 12-JUN-13                  | Finding:      | 0.2   |
| Chemical:    | RADIUM 228 MDA95           | Report units: | PCI/L |
| Dir:         | 0.                         |               |       |
| Sample date: | 12-JUN-13                  | Finding:      | 1.67  |
| Chemical:    | GROSS ALPHA MDA95          | Report units: | PCI/L |
| Dir:         | 0.                         |               |       |
| Sample date: | 12-JUN-13                  | Finding:      | 0.553 |
| Chemical:    | RADIUM 228 COUNTING ERROR  | Report units: | PCI/L |
| Dir:         | 0.                         |               |       |
| Sample date: | 12-JUN-13                  | Finding:      | 1.69  |
| Chemical:    | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dir:         | 0.                         |               |       |

**G31  
ENE  
1/2 - 1 Mile  
Higher**

**CA WELLS      CALLNL000001422**

|                           |  |                    |                |
|---------------------------|--|--------------------|----------------|
| Well ID:                  | 101239                                 | Well Type:         | MUNICIPAL      |
| Source:                   | Lawrence Livermore National Laboratory |                    |                |
| Other Name:               | 09N/05E-16Q01 M                        | GAMA PFAS Testing: | Not Reported   |
| Groundwater Quality Data: | Not Reported                           |                    |                |
| GeoTracker Data:          | Not Reported                           |                    |                |
| Chemical:                 | Krypton                                | Results:           | .0000000768452 |
| Units:                    | cm3STP/g                               | Date:              | 11/15/2002     |
| Chemical:                 | Argon                                  | Results:           | .000352874     |
| Units:                    | cm3STP/g                               | Date:              | 11/15/2002     |
| Chemical:                 | Helium-4                               | Results:           | .00000141231   |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|           |                      |          |               |
|-----------|----------------------|----------|---------------|
| Units:    | cm3STP/g             | Date:    | 11/15/2002    |
| Chemical: | Helium-3/Helium-4    | Results: | .00000047081  |
| Units:    | atom ratio           | Date:    | 11/15/2002    |
| Chemical: | Xenon                | Results: | .000000010964 |
| Units:    | cm3STP/g             | Date:    | 11/15/2002    |
| Chemical: | Tritium (Hydrogen 3) | Results: | 2.37          |
| Units:    | pCi/L                | Date:    | 12/12/2002    |
| Chemical: | Neon                 | Results: | .000000235116 |
| Units:    | cm3STP/g             | Date:    | 11/15/2002    |

**G32  
ENE  
1/2 - 1 Mile  
Higher**

**CA WELLS    CADDW0000003074**

|                           |   |                    |              |
|---------------------------|---|--------------------|--------------|
| Well ID:                  | 3410020-032   | Well Type:         | MUNICIPAL    |
| Source:                   | Department of Health Services   |                    |              |
| Other Name:               | WELL 126  | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-032&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-032&amp;store_num=</a> |                    |              |
| GeoTracker Data:          | Not Reported  |                    |              |

**H33  
ENE  
1/2 - 1 Mile  
Higher**

**FED USGS    USGS40000189607**

|                        |                                      |                             |              |
|------------------------|--------------------------------------|-----------------------------|--------------|
| Organization ID:       | USGS-CA                              |                             |              |
| Organization Name:     | USGS California Water Science Center |                             |              |
| Monitor Location:      | 009N005E16Q001M                      | Type:                       | Well         |
| Description:           | Not Reported                         | HUC:                        | 18020111     |
| 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:     | 19500601                             | Well Depth:                 | 394          |
| Well Depth Units:      | ft                                   | Well Hole Depth:            | 432          |
| Well Hole Depth Units: | ft                                   |                             |              |

**F34  
West  
1/2 - 1 Mile  
Higher**

**CA WELLS    9019**

|            |            |             |                 |
|------------|------------|-------------|-----------------|
| Seq:       | 9019       | Prim sta c: | 09N/05E-20C01 M |
| Frds no:   | 3410020031 | County:     | 34              |
| District:  | 09         | User id:    | TEN             |
| System no: | 3410020    | Water type: | G               |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|             |                      |             |                       |
|-------------|----------------------|-------------|-----------------------|
| Source nam: | WELL 125 - ABANDONED | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude:   | 383735.0             | Longitude:  | 1212720.0             |
| Precision:  | 4                    | Status:     | AB                    |
| Comment 1:  | Not Reported         | Comment 2:  | Not Reported          |
| Comment 3:  | Not Reported         | Comment 4:  | Not Reported          |
| Comment 5:  | Not Reported         | Comment 6:  | Not Reported          |
| Comment 7:  | Not Reported         |             |                       |

|             |                               |             |                     |
|-------------|-------------------------------|-------------|---------------------|
| System no:  | 3410020                       | System nam: | Sacramento, City Of |
| Hqname:     | SACRAMENTO CITY-DIV WTR & SWR | Address:    | 1391 35th Avenue    |
| City:       | Sacramento                    | State:      | Ca                  |
| Zip:        | 95822                         | Zip ext:    | Not Reported        |
| Pop serv:   | 374600                        | Connection: | 120339              |
| Area serve: | SACRAMENTO MAIN               |             |                     |

**H35**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CADWR9000039882**

|               |               |                        |                |
|---------------|---------------|------------------------|----------------|
| State Well #: | 09N05E16Q001M | Station ID:            | 52229          |
| Well Name:    | SAC-126       | Basin Name:            | North American |
| Well Use:     | Other         | Well Type:             | Single Well    |
| Well Depth:   | 432           | Well Completion Rpt #: | Not Reported   |

**I36**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      9012**

|             |              |             |                       |
|-------------|--------------|-------------|-----------------------|
| Seq:        | 9012         | Prim sta c: | 09N/05E-16Q02 M       |
| Frds no:    | 3410020039   | County:     | 34                    |
| District:   | 09           | User id:    | TEN                   |
| System no:  | 3410020      | Water type: | G                     |
| Source nam: | WELL 136     | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude:   | 383740.0     | Longitude:  | 1212600.0             |
| Precision:  | 4            | Status:     | AR                    |
| Comment 1:  | Not Reported | Comment 2:  | Not Reported          |
| Comment 3:  | Not Reported | Comment 4:  | Not Reported          |
| Comment 5:  | Not Reported | Comment 6:  | Not Reported          |
| Comment 7:  | Not Reported |             |                       |

|             |                               |             |                     |
|-------------|-------------------------------|-------------|---------------------|
| System no:  | 3410020                       | System nam: | Sacramento, City Of |
| Hqname:     | SACRAMENTO CITY-DIV WTR & SWR | Address:    | 1391 35th Avenue    |
| City:       | Sacramento                    | State:      | Ca                  |
| Zip:        | 95822                         | Zip ext:    | Not Reported        |
| Pop serv:   | 374600                        | Connection: | 120339              |
| Area serve: | SACRAMENTO MAIN               |             |                     |

**37**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000189600**

|                    |                                      |       |          |
|--------------------|--------------------------------------|-------|----------|
| Organization ID:   | USGS-CA                              |       |          |
| Organization Name: | USGS California Water Science Center |       |          |
| Monitor Location:  | 009N005E20C001M                      | Type: | Well     |
| Description:       | Not Reported                         | HUC:  | 18020111 |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                        |                               |                             |              |
|------------------------|-------------------------------|-----------------------------|--------------|
| 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:     | 19600830                      | Well Depth:                 | 300          |
| Well Depth Units:      | ft                            | Well Hole Depth:            | 308          |
| Well Hole Depth Units: | ft                            |                             |              |

**38**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CADDW0000004474**

|                           |   |            |           |
|---------------------------|---|------------|-----------|
| Well ID:                  | 3410020-011   | Well Type: | MUNICIPAL |
| Source:                   | Department of Health Services   |            |           |
| Other Name:               | MONTHLY COMPST DIST SAMPRS - DESTROYED  |            |           |
| GAMA PFAS Testing:        | Not Reported  |            |           |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-011&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-011&amp;store_num=</a> |            |           |
| GeoTracker Data:          | Not Reported  |            |           |

**139**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000189605**

|                        |                                      |                             |              |
|------------------------|--------------------------------------|-----------------------------|--------------|
| Organization ID:       | USGS-CA                              |                             |              |
| Organization Name:     | USGS California Water Science Center |                             |              |
| Monitor Location:      | 009N005E16Q002M                      | Type:                       | Well         |
| Description:           | Not Reported                         | HUC:                        | 18020111     |
| 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:     | 19650201                             | Well Depth:                 | 371          |
| Well Depth Units:      | ft                                   | Well Hole Depth:            | 385          |
| Well Hole Depth Units: | ft                                   |                             |              |

**J40**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CADWR9000039828**

|               |               |                        |                |
|---------------|---------------|------------------------|----------------|
| State Well #: | 09N05E21M001M | Station ID:            | 31412          |
| Well Name:    | DWR_SGA_003   | Basin Name:            | North American |
| Well Use:     | Unknown       | Well Type:             | Single Well    |
| Well Depth:   | 89            | Well Completion Rpt #: | Not Reported   |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**K41**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CADDW0000017882**

Well ID: 3410020-039      Well Type: MUNICIPAL  
 Source: Department of Health Services  
 Other Name: WELL 136 - INACTIVE      GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp\\_date=&global\\_id=&assigned\\_name=3410020-039&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3410020-039&store_num=)  
 GeoTracker Data: Not Reported

**J42**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000075487**

Well ID: T0606790533-MW-2      Well Type: MONITORING  
 Source: EDF      Other Name: MW-2  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0606790533&assigned\\_name=MW-2&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606790533&assigned_name=MW-2&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0606790533&assigned\\_name=MW-2](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606790533&assigned_name=MW-2)

**J43**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000048034**

Well ID: T0606790533-MW-3      Well Type: MONITORING  
 Source: EDF      Other Name: MW-3  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0606790533&assigned\\_name=MW-3&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606790533&assigned_name=MW-3&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0606790533&assigned\\_name=MW-3](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606790533&assigned_name=MW-3)

**J44**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000083533**

Well ID: T0606790533-MW-1      Well Type: MONITORING  
 Source: EDF      Other Name: MW-1  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0606790533&assigned\\_name=MW-1&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606790533&assigned_name=MW-1&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0606790533&assigned\\_name=MW-1](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606790533&assigned_name=MW-1)

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**K45**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000042074**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606701067-MW-10   | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW-10      |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701067&amp;assigned_name=MW-10&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701067&amp;assigned_name=MW-10&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701067&amp;assigned_name=MW-10">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701067&amp;assigned_name=MW-10</a>   |             |            |

**L46**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000048673**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606701067-MW-9  | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW-9       |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701067&amp;assigned_name=MW-9&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701067&amp;assigned_name=MW-9&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701067&amp;assigned_name=MW-9">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701067&amp;assigned_name=MW-9</a>   |             |            |

**K47**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000079394**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606701067-MW-11   | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW-11      |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701067&amp;assigned_name=MW-11&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701067&amp;assigned_name=MW-11&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701067&amp;assigned_name=MW-11">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701067&amp;assigned_name=MW-11</a>   |             |            |

**K48**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CALLNL000000722**

|                           |  |                    |              |
|---------------------------|--|--------------------|--------------|
| Well ID:                  | 101282                                 | Well Type:         | MUNICIPAL    |
| Source:                   | Lawrence Livermore National Laboratory |                    |              |
| Other Name:               | 09N/05E-16Q02 M                        | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | Not Reported                           |                    |              |
| GeoTracker Data:          | Not Reported                           |                    |              |

|           |          |          |              |
|-----------|----------|----------|--------------|
| Chemical: | Helium-4 | Results: | .00000143519 |
| Units:    | cm3STP/g | Date:    | 11/20/2002   |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|           |                      |          |                |
|-----------|----------------------|----------|----------------|
| Chemical: | Tritium (Hydrogen 3) | Results: | 1.75           |
| Units:    | pCi/L                | Date:    | 12/23/2002     |
| Chemical: | Argon                | Results: | .000420885     |
| Units:    | cm3STP/g             | Date:    | 11/20/2002     |
| Chemical: | Krypton              | Results: | .0000000906033 |
| Units:    | cm3STP/g             | Date:    | 11/20/2002     |
| Chemical: | Helium-3/Helium-4    | Results: | .000000493933  |
| Units:    | atom ratio           | Date:    | 11/20/2002     |
| Chemical: | Neon                 | Results: | .000000284331  |
| Units:    | cm3STP/g             | Date:    | 11/20/2002     |
| Chemical: | Xenon                | Results: | .000000012505  |
| Units:    | cm3STP/g             | Date:    | 11/20/2002     |

**K49  
ENE  
1/2 - 1 Mile  
Higher**

**CA WELLS    CAEDF000005035**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606701067-MW-7  | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW-7       |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701067&amp;assigned_name=MW-7&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701067&amp;assigned_name=MW-7&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701067&amp;assigned_name=MW-7">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701067&amp;assigned_name=MW-7</a>   |             |            |

**K50  
ENE  
1/2 - 1 Mile  
Higher**

**CA WELLS    CAEDF0000044929**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606701067-MW-8  | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW-8       |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701067&amp;assigned_name=MW-8&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701067&amp;assigned_name=MW-8&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701067&amp;assigned_name=MW-8">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701067&amp;assigned_name=MW-8</a>   |             |            |

**K51  
ENE  
1/2 - 1 Mile  
Higher**

**CA WELLS    CAEDF0000062491**

|          |                   |             |            |
|----------|-------------------|-------------|------------|
| Well ID: | T0606701067-MW-12 | Well Type:  | MONITORING |
| Source:  | EDF               | Other Name: | MW-12      |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0606701067&assigned\\_name=MW-12&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606701067&assigned_name=MW-12&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0606701067&assigned\\_name=MW-12](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606701067&assigned_name=MW-12)

**L52  
ENE  
1/2 - 1 Mile  
Higher**

**CA WELLS      CAEDF0000102645**

Well ID: T0606701067-MW-5      Well Type: MONITORING  
 Source: EDF      Other Name: MW-5  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0606701067&assigned\\_name=MW-5&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606701067&assigned_name=MW-5&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0606701067&assigned\\_name=MW-5](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606701067&assigned_name=MW-5)

**L53  
ENE  
1/2 - 1 Mile  
Higher**

**CA WELLS      CAEDF0000035987**

Well ID: T0606701067-MW-6      Well Type: MONITORING  
 Source: EDF      Other Name: MW-6  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0606701067&assigned\\_name=MW-6&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606701067&assigned_name=MW-6&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0606701067&assigned\\_name=MW-6](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606701067&assigned_name=MW-6)

**L54  
ENE  
1/2 - 1 Mile  
Higher**

**CA WELLS      CAEDF0000107962**

Well ID: T0606701067-MW-2      Well Type: MONITORING  
 Source: EDF      Other Name: MW-2  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0606701067&assigned\\_name=MW-2&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606701067&assigned_name=MW-2&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0606701067&assigned\\_name=MW-2](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606701067&assigned_name=MW-2)

**L55  
ENE  
1/2 - 1 Mile  
Higher**

**CA WELLS      CAEDF0000008277**

Well ID: T0606701067-MW-4      Well Type: MONITORING  
 Source: EDF      Other Name: MW-4  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0606701067&assigned\\_name=MW-4&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606701067&assigned_name=MW-4&store_num=)

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0606701067&assigned\\_name=MW-4](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606701067&assigned_name=MW-4)

**M56**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS USGS40000189623**

|                        |                                      |                              |              |
|------------------------|--------------------------------------|------------------------------|--------------|
| Organization ID:       | USGS-CA                              |                              |              |
| Organization Name:     | USGS California Water Science Center |                              |              |
| Monitor Location:      | 009N005E16K001M                      | Type:                        | Well         |
| Description:           | Not Reported                         | HUC:                         | 18020111     |
| 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:     | 19721130                             | Well Depth:                  | 252          |
| Well Depth Units:      | ft                                   | Well Hole Depth:             | 370          |
| Well Hole Depth Units: | ft                                   |                              |              |

|  |              |                     |              |
|--|--------------|---------------------|--------------|
| Ground water levels, Number of Measurements: | 1            | Level reading date: | 1972-11-30   |
| Feet below surface:                          | 60.00        | Feet to sea level:  | Not Reported |
| Note:  | Not Reported |                     |              |

**M57**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS CADWR9000039897**

|               |               |                        |                |
|---------------|---------------|------------------------|----------------|
| State Well #: | 09N05E16K001M | Station ID:            | 9092           |
| Well Name:    | Not Reported  | Basin Name:            | North American |
| Well Use:     | Irrigation    | Well Type:             | Unknown        |
| Well Depth:   | 365           | Well Completion Rpt #: | 94510          |

**L58**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS CAEDF0000037234**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606701067-MW-3  | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW-3       |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701067&amp;assigned_name=MW-3&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701067&amp;assigned_name=MW-3&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701067&amp;assigned_name=MW-3">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701067&amp;assigned_name=MW-3</a>   |             |            |

**L59**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS CAEDF0000130322**

|          |                   |             |            |
|----------|-------------------|-------------|------------|
| Well ID: | T0606701067-MW-3D | Well Type:  | MONITORING |
| Source:  | EDF               | Other Name: | MW-3D      |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0606701067&assigned\\_name=MW-3D&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606701067&assigned_name=MW-3D&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0606701067&assigned\\_name=MW-3D](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606701067&assigned_name=MW-3D)

**L60  
ENE  
1/2 - 1 Mile  
Higher**

**CA WELLS CAEDF0000108525**

Well ID: T0606701067-MW-1 Well Type: MONITORING  
 Source: EDF Other Name: MW-1  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0606701067&assigned\\_name=MW-1&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606701067&assigned_name=MW-1&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0606701067&assigned\\_name=MW-1](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606701067&assigned_name=MW-1)

**N61  
ESE  
1/2 - 1 Mile  
Higher**

**CA WELLS 9027**

Seq: 9027 Prim sta c: 09N/05E-21H01 M  
 Frds no: 3410020028 County: 34  
 District: 09 User id: TEN  
 System no: 3410020 Water type: G  
 Source nam: WELL 122 Station ty: WELL/AMBNT/MUN/INTAKE  
 Latitude: 383710.0 Longitude: 1212555.0  
 Precision: 4 Status: AR  
 Comment 1: Not Reported Comment 2: Not Reported  
 Comment 3: Not Reported Comment 4: Not Reported  
 Comment 5: Not Reported Comment 6: Not Reported  
 Comment 7: Not Reported

System no: 3410020 System nam: Sacramento, City Of  
 Hqname: SACRAMENTO CITY-DIV WTR & SWR Address: 1391 35th Avenue  
 City: Sacramento State: Ca  
 Zip: 95822 Zip ext: Not Reported  
 Pop serv: 374600 Connection: 120339  
 Area serve: SACRAMENTO MAIN

Sample date: 26-FEB-18 Finding: 1.4  
 Chemical: NITRATE (AS N) Report units: MG/L  
 Dir: 0.4

Sample date: 08-MAY-17 Finding: 138.  
 Chemical: BICARBONATE ALKALINITY Report units: MG/L  
 Dir: 0.

Sample date: 08-MAY-17 Finding: 113.  
 Chemical: ALKALINITY (TOTAL) AS CaCO3 Report units: MG/L  
 Dir: 0.

Sample date: 08-MAY-17 Finding: 7.7  
 Chemical: PH, LABORATORY Report units: Not Reported  
 Dir: 0.

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |                                       |               |              |
|--------------|---------------------------------------|---------------|--------------|
| Sample date: | 08-MAY-17                             | Finding:      | 430.         |
| Chemical:    | SPECIFIC CONDUCTANCE                  | Report units: | US           |
| Dir:         | 0.                                    |               |              |
| Sample date: | 08-MAY-17                             | Finding:      | 1.           |
| Chemical:    | COLOR                                 | Report units: | UNITS        |
| Dir:         | 0.                                    |               |              |
| Sample date: | 08-MAY-17                             | Finding:      | 3.8          |
| Chemical:    | CHROMIUM, HEXAVALENT                  | Report units: | UG/L         |
| Dir:         | 1.                                    |               |              |
| Sample date: | 08-MAY-17                             | Finding:      | 34.          |
| Chemical:    | SODIUM                                | Report units: | MG/L         |
| Dir:         | 0.                                    |               |              |
| Sample date: | 08-MAY-17                             | Finding:      | 17.          |
| Chemical:    | MAGNESIUM                             | Report units: | MG/L         |
| Dir:         | 0.                                    |               |              |
| Sample date: | 08-MAY-17                             | Finding:      | 24.          |
| Chemical:    | CALCIUM                               | Report units: | MG/L         |
| Dir:         | 0.                                    |               |              |
| Sample date: | 08-MAY-17                             | Finding:      | 141.         |
| Chemical:    | HARDNESS (TOTAL) AS CaCO <sub>3</sub> | Report units: | MG/L         |
| Dir:         | 0.                                    |               |              |
| Sample date: | 08-MAY-17                             | Finding:      | 1.3          |
| Chemical:    | NITRATE (AS N)                        | Report units: | MG/L         |
| Dir:         | 0.4                                   |               |              |
| Sample date: | 08-MAY-17                             | Finding:      | 6.e-002      |
| Chemical:    | TURBIDITY, LABORATORY                 | Report units: | NTU          |
| Dir:         | 0.1                                   |               |              |
| Sample date: | 08-MAY-17                             | Finding:      | 11.6         |
| Chemical:    | AGGRSSIVE INDEX (CORROSIVITY)         | Report units: | Not Reported |
| Dir:         | 0.                                    |               |              |
| Sample date: | 08-MAY-17                             | Finding:      | 1.3          |
| Chemical:    | NITRATE + NITRITE (AS N)              | Report units: | MG/L         |
| Dir:         | 0.4                                   |               |              |
| Sample date: | 08-MAY-17                             | Finding:      | 59.4         |
| Chemical:    | CHLORIDE                              | Report units: | MG/L         |
| Dir:         | 0.                                    |               |              |
| Sample date: | 08-MAY-17                             | Finding:      | 5.4          |
| Chemical:    | SULFATE                               | Report units: | MG/L         |
| Dir:         | 0.5                                   |               |              |
| Sample date: | 08-MAY-17                             | Finding:      | 293.         |
| Chemical:    | TOTAL DISSOLVED SOLIDS                | Report units: | MG/L         |
| Dir:         | 0.                                    |               |              |
| Sample date: | 11-OCT-16                             | Finding:      | 1.2          |
| Chemical:    | NITRATE (AS N)                        | Report units: | MG/L         |
| Dir:         | 0.4                                   |               |              |
| Sample date: | 15-OCT-15                             | Finding:      | 1210.        |
| Chemical:    | NITRATE + NITRITE (AS N)              | Report units: | MG/L         |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |                               |               |         |
|--------------|-------------------------------|---------------|---------|
| Dir:         | 0.4                           |               |         |
| Sample date: | 15-OCT-15                     | Finding:      | 1.2     |
| Chemical:    | NITRATE (AS N)                | Report units: | MG/L    |
| Dir:         | 0.4                           |               |         |
| Sample date: | 15-OCT-15                     | Finding:      | 0.11    |
| Chemical:    | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L    |
| Dir:         | 0.1                           |               |         |
| Sample date: | 16-DEC-14                     | Finding:      | 3.7     |
| Chemical:    | CHROMIUM, HEXAVALENT          | Report units: | UG/L    |
| Dir:         | 1.                            |               |         |
| Sample date: | 14-OCT-14                     | Finding:      | 5.1     |
| Chemical:    | NITRATE (AS NO3)              | Report units: | MG/L    |
| Dir:         | 2.                            |               |         |
| Sample date: | 22-SEP-14                     | Finding:      | 7.e-002 |
| Chemical:    | TURBIDITY, LABORATORY         | Report units: | NTU     |
| Dir:         | 0.1                           |               |         |
| Sample date: | 22-SEP-14                     | Finding:      | 5.2     |
| Chemical:    | NITRATE (AS NO3)              | Report units: | MG/L    |
| Dir:         | 2.                            |               |         |
| Sample date: | 22-SEP-14                     | Finding:      | 298.    |
| Chemical:    | TOTAL DISSOLVED SOLIDS        | Report units: | MG/L    |
| Dir:         | 0.                            |               |         |
| Sample date: | 22-SEP-14                     | Finding:      | 2.6     |
| Chemical:    | ARSENIC                       | Report units: | UG/L    |
| Dir:         | 2.                            |               |         |
| Sample date: | 22-SEP-14                     | Finding:      | 0.14    |
| Chemical:    | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L    |
| Dir:         | 0.1                           |               |         |
| Sample date: | 22-SEP-14                     | Finding:      | 5.1     |
| Chemical:    | SULFATE                       | Report units: | MG/L    |
| Dir:         | 0.5                           |               |         |
| Sample date: | 22-SEP-14                     | Finding:      | 55.7    |
| Chemical:    | CHLORIDE                      | Report units: | MG/L    |
| Dir:         | 0.                            |               |         |
| Sample date: | 22-SEP-14                     | Finding:      | 3.      |
| Chemical:    | POTASSIUM                     | Report units: | MG/L    |
| Dir:         | 0.                            |               |         |
| Sample date: | 22-SEP-14                     | Finding:      | 30.8    |
| Chemical:    | SODIUM                        | Report units: | MG/L    |
| Dir:         | 0.                            |               |         |
| Sample date: | 22-SEP-14                     | Finding:      | 15.4    |
| Chemical:    | MAGNESIUM                     | Report units: | MG/L    |
| Dir:         | 0.                            |               |         |
| Sample date: | 22-SEP-14                     | Finding:      | 24.2    |
| Chemical:    | CALCIUM                       | Report units: | MG/L    |
| Dir:         | 0.                            |               |         |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |   |               |              |
|--------------|---|---------------|--------------|
| Sample date: | 22-SEP-14                               | Finding:      | 132.         |
| Chemical:    | HARDNESS (TOTAL) AS CaCO <sub>3</sub>   | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 22-SEP-14                               | Finding:      | 110.         |
| Chemical:    | BICARBONATE ALKALINITY                  | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 22-SEP-14                               | Finding:      | 110.         |
| Chemical:    | ALKALINITY (TOTAL) AS CaCO <sub>3</sub> | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 22-SEP-14                               | Finding:      | 7.3          |
| Chemical:    | PH, LABORATORY                          | Report units: | Not Reported |
| Dir:         | 0.                                      |               |              |
| Sample date: | 22-SEP-14                               | Finding:      | 405.         |
| Chemical:    | SPECIFIC CONDUCTANCE                    | Report units: | US           |
| Dir:         | 0.                                      |               |              |
| Sample date: | 22-SEP-14                               | Finding:      | 1.           |
| Chemical:    | COLOR                                   | Report units: | UNITS        |
| Dir:         | 0.                                      |               |              |
| Sample date: | 22-SEP-14                               | Finding:      | 12.          |
| Chemical:    | AGGRSSIVE INDEX (CORROSIVITY)           | Report units: | Not Reported |
| Dir:         | 0.                                      |               |              |
| Sample date: | 22-SEP-14                               | Finding:      | 23.          |
| Chemical:    | CALCIUM                                 | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 22-SEP-14                               | Finding:      | 120.         |
| Chemical:    | ALKALINITY (TOTAL) AS CaCO <sub>3</sub> | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 22-SEP-14                               | Finding:      | 7.84         |
| Chemical:    | PH, LABORATORY                          | Report units: | Not Reported |
| Dir:         | 0.                                      |               |              |
| Sample date: | 22-SEP-14                               | Finding:      | 1210.        |
| Chemical:    | NITRATE + NITRITE (AS N)                | Report units: | MG/L         |
| Dir:         | 0.4                                     |               |              |
| Sample date: | 15-OCT-13                               | Finding:      | 4.8          |
| Chemical:    | NITRATE (AS NO <sub>3</sub> )           | Report units: | MG/L         |
| Dir:         | 2.                                      |               |              |
| Sample date: | 10-OCT-12                               | Finding:      | 4.7          |
| Chemical:    | NITRATE (AS NO <sub>3</sub> )           | Report units: | MG/L         |
| Dir:         | 2.                                      |               |              |
| Sample date: | 10-OCT-12                               | Finding:      | 0.4          |
| Chemical:    | RADIUM 228 MDA95                        | Report units: | PCI/L        |
| Dir:         | 0.                                      |               |              |
| Sample date: | 10-OCT-12                               | Finding:      | 1.76         |
| Chemical:    | GROSS ALPHA MDA95                       | Report units: | PCI/L        |
| Dir:         | 0.                                      |               |              |
| Sample date: | 10-OCT-12                               | Finding:      | 1.13         |
| Chemical:    | RADIUM 228 COUNTING ERROR               | Report units: | PCI/L        |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir: 0.

Sample date: 10-OCT-12      Finding: 1.27  
 Chemical: GROSS ALPHA COUNTING ERROR      Report units: PCI/L  
 Dir: 0.

**N62  
ESE  
1/2 - 1 Mile  
Higher**

**CA WELLS      CALLNL000001442**

Well ID: 101238      Well Type: MUNICIPAL  
 Source: Lawrence Livermore National Laboratory  
 Other Name: 09N/05E-21H01 M      GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: Not Reported  
 GeoTracker Data: Not Reported

Chemical: Krypton      Results: .000000838594  
 Units: cm3STP/g      Date: 11/04/2003

Chemical: Helium-3/Helium-4      Results: .000000484916  
 Units: atom ratio      Date: 11/04/2003

Chemical: Tritium (Hydrogen 3)      Results: .4  
 Units: pCi/L      Date: 12/12/2002

Chemical: Argon      Results: .000376276  
 Units: cm3STP/g      Date: 11/04/2003

Chemical: Xenon      Results: .000000112097  
 Units: cm3STP/g      Date: 11/04/2003

Chemical: Neon      Results: .000000241801  
 Units: cm3STP/g      Date: 11/04/2003

Chemical: Helium-4      Results: .000000967498  
 Units: cm3STP/g      Date: 11/04/2003

**O63  
ESE  
1/2 - 1 Mile  
Higher**

**CA WELLS      CADDW0000002456**

Well ID: 3410020-028      Well Type: MUNICIPAL  
 Source: Department of Health Services  
 Other Name: WELL 122      GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp\\_date=&global\\_id=&assigned\\_name=3410020-028&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3410020-028&store_num=)  
 GeoTracker Data: Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**64**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CADWR9000039868**

|               |               |                        |                |
|---------------|---------------|------------------------|----------------|
| State Well #: | 09N05E20D001M | Station ID:            | 52228          |
| Well Name:    | SAC-124       | Basin Name:            | North American |
| Well Use:     | Other         | Well Type:             | Single Well    |
| Well Depth:   | 306           | Well Completion Rpt #: | 54677          |

**O65**  
**ESE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CADWR9000039857**

|               |               |                        |                |
|---------------|---------------|------------------------|----------------|
| State Well #: | 09N05E21H001M | Station ID:            | 52226          |
| Well Name:    | SAC-122       | Basin Name:            | North American |
| Well Use:     | Other         | Well Type:             | Single Well    |
| Well Depth:   | 422           | Well Completion Rpt #: | Not Reported   |

**66**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000091176**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606701067-MW-14   | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW-14      |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701067&amp;assigned_name=MW-14&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606701067&amp;assigned_name=MW-14&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701067&amp;assigned_name=MW-14">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606701067&amp;assigned_name=MW-14</a>   |             |            |

**O67**  
**ESE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000189578**

|                        |                                      |                             |              |
|------------------------|--------------------------------------|-----------------------------|--------------|
| Organization ID:       | USGS-CA                              |                             |              |
| Organization Name:     | USGS California Water Science Center |                             |              |
| Monitor Location:      | 009N005E21H001M                      | Type:                       | Well         |
| Description:           | Not Reported                         | HUC:                        | 18020111     |
| 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:        | Merten Formation (Pliocene-Miocene)  |                             |              |
| Aquifer Type:          | Not Reported                         | Construction Date:          | 19480101     |
| Well Depth:            | 422                                  | Well Depth Units:           | ft           |
| Well Hole Depth:       | 422                                  | Well Hole Depth Units:      | ft           |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**P68**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      9009**

|             |              |             |                       |
|-------------|--------------|-------------|-----------------------|
| Seq:        | 9009         | Prim sta c: | 09N/05E-16G01 M       |
| Frds no:    | 3400259001   | County:     | 34                    |
| District:   | 64           | User id:    | 34C                   |
| System no:  | 3400259      | Water type: | G                     |
| Source nam: | WELL A       | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude:   | 383806.0     | Longitude:  | 1212606.0             |
| Precision:  | 3            | Status:     | AR                    |
| Comment 1:  | Not Reported | Comment 2:  | Not Reported          |
| Comment 3:  | Not Reported | Comment 4:  | Not Reported          |
| Comment 5:  | Not Reported | Comment 6:  | Not Reported          |
| Comment 7:  | Not Reported |             |                       |

|             |              |             |                    |
|-------------|--------------|-------------|--------------------|
| System no:  | 3400259      | System nam: | Grant-Del Paso Sys |
| Hqname:     | Not Reported | Address:    | Not Reported       |
| City:       | Not Reported | State:      | Not Reported       |
| Zip:        | Not Reported | Zip ext:    | Not Reported       |
| Pop serv:   | 0            | Connection: | 0                  |
| Area serve: | Not Reported |             |                    |

|              |                |               |      |
|--------------|----------------|---------------|------|
| Sample date: | 12-FEB-18      | Finding:      | 6.1  |
| Chemical:    | NITRATE (AS N) | Report units: | MG/L |
| Dir:         | 0.4            |               |      |

|              |                |               |      |
|--------------|----------------|---------------|------|
| Sample date: | 20-NOV-17      | Finding:      | 6.6  |
| Chemical:    | NITRATE (AS N) | Report units: | MG/L |
| Dir:         | 0.4            |               |      |

|              |                |               |      |
|--------------|----------------|---------------|------|
| Sample date: | 23-AUG-17      | Finding:      | 7.   |
| Chemical:    | NITRATE (AS N) | Report units: | MG/L |
| Dir:         | 0.4            |               |      |

|              |                |               |      |
|--------------|----------------|---------------|------|
| Sample date: | 29-JUN-17      | Finding:      | 6.7  |
| Chemical:    | NITRATE (AS N) | Report units: | MG/L |
| Dir:         | 0.4            |               |      |

|              |                |               |      |
|--------------|----------------|---------------|------|
| Sample date: | 12-MAY-17      | Finding:      | 6.9  |
| Chemical:    | NITRATE (AS N) | Report units: | MG/L |
| Dir:         | 0.4            |               |      |

|              |                |               |      |
|--------------|----------------|---------------|------|
| Sample date: | 06-FEB-17      | Finding:      | 6.1  |
| Chemical:    | NITRATE (AS N) | Report units: | MG/L |
| Dir:         | 0.4            |               |      |

|              |                   |               |       |
|--------------|-------------------|---------------|-------|
| Sample date: | 15-AUG-16         | Finding:      | 1.59  |
| Chemical:    | GROSS ALPHA MDA95 | Report units: | PCI/L |
| Dir:         | 0.                |               |       |

|              |                            |               |       |
|--------------|----------------------------|---------------|-------|
| Sample date: | 15-AUG-16                  | Finding:      | 1.28  |
| Chemical:    | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dir:         | 0.                         |               |       |

|              |                |               |      |
|--------------|----------------|---------------|------|
| Sample date: | 04-AUG-16      | Finding:      | 6.3  |
| Chemical:    | NITRATE (AS N) | Report units: | MG/L |
| Dir:         | 0.4            |               |      |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |                      |               |      |
|--------------|----------------------|---------------|------|
| Sample date: | 21-AUG-15            | Finding:      | 2.   |
| Chemical:    | CHROMIUM (TOTAL)     | Report units: | UG/L |
| Dir:         | 10.                  |               |      |
| Sample date: | 21-AUG-15            | Finding:      | 59.5 |
| Chemical:    | BARIUM               | Report units: | UG/L |
| Dir:         | 100.                 |               |      |
| Sample date: | 21-AUG-15            | Finding:      | 3.   |
| Chemical:    | ARSENIC              | Report units: | UG/L |
| Dir:         | 2.                   |               |      |
| Sample date: | 21-AUG-15            | Finding:      | 5.4  |
| Chemical:    | NITRATE (AS N)       | Report units: | MG/L |
| Dir:         | 0.4                  |               |      |
| Sample date: | 18-NOV-14            | Finding:      | 8.4  |
| Chemical:    | CHROMIUM, HEXAVALENT | Report units: | UG/L |
| Dir:         | 1.                   |               |      |
| Sample date: | 07-AUG-14            | Finding:      | 22.  |
| Chemical:    | NITRATE (AS NO3)     | Report units: | MG/L |
| Dir:         | 2.                   |               |      |
| Sample date: | 21-AUG-13            | Finding:      | 21.4 |
| Chemical:    | NITRATE (AS NO3)     | Report units: | MG/L |
| Dir:         | 2.                   |               |      |

**69  
SW  
1/2 - 1 Mile  
Lower**

**CA WELLS 9022**

|              |                               |               |                       |
|--------------|-------------------------------|---------------|-----------------------|
| Seq:         | 9022                          | Prim sta c:   | 09N/05E-20P02 M       |
| Frds no:     | 3410020044                    | County:       | 34                    |
| District:    | 09                            | User id:      | TEN                   |
| System no:   | 3410020                       | Water type:   | G                     |
| Source nam:  | WELL 142                      | Station ty:   | WELL/AMBNT/MUN/INTAKE |
| Latitude:    | 383700.0                      | Longitude:    | 1212720.0             |
| Precision:   | 4                             | Status:       | AR                    |
| Comment 1:   | Not Reported                  | Comment 2:    | Not Reported          |
| Comment 3:   | Not Reported                  | Comment 4:    | Not Reported          |
| Comment 5:   | Not Reported                  | Comment 6:    | Not Reported          |
| Comment 7:   | Not Reported                  |               |                       |
| System no:   | 3410020                       | System nam:   | Sacramento, City Of   |
| Hqname:      | SACRAMENTO CITY-DIV WTR & SWR | Address:      | 1391 35th Avenue      |
| City:        | Sacramento                    | State:        | Ca                    |
| Zip:         | 95822                         | Zip ext:      | Not Reported          |
| Pop serv:    | 374600                        | Connection:   | 120339                |
| Area serve:  | SACRAMENTO MAIN               |               |                       |
| Sample date: | 22-OCT-12                     | Finding:      | 5.9                   |
| Chemical:    | TRICHLOROETHYLENE             | Report units: | UG/L                  |
| Dir:         | 0.5                           |               |                       |
| Sample date: | 10-OCT-12                     | Finding:      | 1.96                  |
| Chemical:    | GROSS ALPHA COUNTING ERROR    | Report units: | PCI/L                 |
| Dir:         | 0.                            |               |                       |
| Sample date: | 10-OCT-12                     | Finding:      | 1.08                  |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |                           |               |       |
|--------------|---------------------------|---------------|-------|
| Chemical:    | RADIUM 228 COUNTING ERROR | Report units: | PCI/L |
| Dir:         | 0.                        |               |       |
| Sample date: | 10-OCT-12                 | Finding:      | 8.21  |
| Chemical:    | GROSS ALPHA               | Report units: | PCI/L |
| Dir:         | 3.                        |               |       |
| Sample date: | 10-OCT-12                 | Finding:      | 1.54  |
| Chemical:    | GROSS ALPHA MDA95         | Report units: | PCI/L |
| Dir:         | 0.                        |               |       |
| Sample date: | 10-OCT-12                 | Finding:      | 0.4   |
| Chemical:    | RADIUM 228 MDA95          | Report units: | PCI/L |
| Dir:         | 0.                        |               |       |
| Sample date: | 10-OCT-12                 | Finding:      | 8.12  |
| Chemical:    | TRICHLOROETHYLENE         | Report units: | UG/L  |
| Dir:         | 0.5                       |               |       |
| Sample date: | 11-JAN-12                 | Finding:      | 0.9   |
| Chemical:    | TRICHLOROETHYLENE         | Report units: | UG/L  |
| Dir:         | 0.5                       |               |       |

**O70**  
**ESE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS    CAUSGSN00008770**

|                           |   |                    |              |
|---------------------------|---|--------------------|--------------|
| Well ID:                  | USGS-383714121255001  | Well Type:         | UNK          |
| Source:                   | United States Geological Survey   |                    |              |
| Other Name:               | USGS-383714121255001  | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&amp;amp_date=&amp;global_id=&amp;assigned_name=USGS-383714121255001&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&amp;amp_date=&amp;global_id=&amp;assigned_name=USGS-383714121255001&amp;store_num=</a> |                    |              |
| GeoTracker Data:          | Not Reported  |                    |              |

**Q71**  
**East**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS    9024**

|             |              |             |                       |
|-------------|--------------|-------------|-----------------------|
| Seq:        | 9024         | Prim sta c: | 09N/05E-21A01 M       |
| Frds no:    | 3410020033   | County:     | 34                    |
| District:   | 09           | User id:    | TEN                   |
| System no:  | 3410020      | Water type: | G                     |
| Source nam: | WELL 127     | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude:   | 383735.0     | Longitude:  | 1212545.0             |
| Precision:  | 4            | Status:     | AR                    |
| Comment 1:  | Not Reported | Comment 2:  | Not Reported          |
| Comment 3:  | Not Reported | Comment 4:  | Not Reported          |
| Comment 5:  | Not Reported | Comment 6:  | Not Reported          |
| Comment 7:  | Not Reported |             |                       |

|             |                               |             |                     |
|-------------|-------------------------------|-------------|---------------------|
| System no:  | 3410020                       | System nam: | Sacramento, City Of |
| Hqname:     | SACRAMENTO CITY-DIV WTR & SWR | Address:    | 1391 35th Avenue    |
| City:       | Sacramento                    | State:      | Ca                  |
| Zip:        | 95822                         | Zip ext:    | Not Reported        |
| Pop serv:   | 374600                        | Connection: | 120339              |
| Area serve: | SACRAMENTO MAIN               |             |                     |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |                            |               |       |
|--------------|----------------------------|---------------|-------|
| Sample date: | 10-OCT-12                  | Finding:      | 1.55  |
| Chemical:    | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dir:         | 0.                         |               |       |
|              |                            |               |       |
| Sample date: | 10-OCT-12                  | Finding:      | 1.14  |
| Chemical:    | RADIUM 228 COUNTING ERROR  | Report units: | PCI/L |
| Dir:         | 0.                         |               |       |
|              |                            |               |       |
| Sample date: | 10-OCT-12                  | Finding:      | 5.2   |
| Chemical:    | NITRATE (AS NO3)           | Report units: | MG/L  |
| Dir:         | 2.                         |               |       |
|              |                            |               |       |
| Sample date: | 10-OCT-12                  | Finding:      | 0.497 |
| Chemical:    | RADIUM 228 MDA95           | Report units: | PCI/L |
| Dir:         | 0.                         |               |       |
|              |                            |               |       |
| Sample date: | 10-OCT-12                  | Finding:      | 0.55  |
| Chemical:    | TETRACHLOROETHYLENE        | Report units: | UG/L  |
| Dir:         | 0.5                        |               |       |
|              |                            |               |       |
| Sample date: | 10-OCT-12                  | Finding:      | 1.92  |
| Chemical:    | GROSS ALPHA MDA95          | Report units: | PCI/L |
| Dir:         | 0.                         |               |       |

**Q72**  
**East**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000189601**

|                        |                                      |                             |              |
|------------------------|--------------------------------------|-----------------------------|--------------|
| Organization ID:       | USGS-CA                              |                             |              |
| Organization Name:     | USGS California Water Science Center |                             |              |
| Monitor Location:      | 009N005E21A001M                      | Type:                       | Well         |
| Description:           | Not Reported                         | HUC:                        | 18020111     |
| 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:     | 19650101                             | Well Depth:                 | 401          |
| Well Depth Units:      | ft                                   | Well Hole Depth:            | 410          |
| Well Hole Depth Units: | ft                                   |                             |              |

**Q73**  
**East**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CADWR9000039875**

|               |               |                        |                |
|---------------|---------------|------------------------|----------------|
| State Well #: | 10N05E36A956M | Station ID:            | 55105          |
| Well Name:    | SAC-127       | Basin Name:            | North American |
| Well Use:     | Other         | Well Type:             | Single Well    |
| Well Depth:   | 401           | Well Completion Rpt #: | Not Reported   |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**R74**  
**North**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000189641**

|                        |                                      |                              |              |
|------------------------|--------------------------------------|------------------------------|--------------|
| Organization ID:       | USGS-CA                              |                              |              |
| Organization Name:     | USGS California Water Science Center |                              |              |
| Monitor Location:      | 009N005E16D001M                      | Type:                        | Well         |
| Description:           | Not Reported                         | HUC:                         | 18020111     |
| 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:     | 19570130                             | Well Depth:                  | 300          |
| Well Depth Units:      | ft                                   | Well Hole Depth:             | 300          |
| Well Hole Depth Units: | ft                                   |                              |              |

**S75**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000062143**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606729806-MW-1  | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW-1       |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606729806&amp;assigned_name=MW-1&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606729806&amp;assigned_name=MW-1&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606729806&amp;assigned_name=MW-1">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606729806&amp;assigned_name=MW-1</a>   |             |            |

**T76**  
**North**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CADWR9000039911**

|               |               |                        |                |
|---------------|---------------|------------------------|----------------|
| State Well #: | 09N05E15D001M | Station ID:            | 52231          |
| Well Name:    | SAC-131       | Basin Name:            | North American |
| Well Use:     | Other         | Well Type:             | Single Well    |
| Well Depth:   | 280           | Well Completion Rpt #: | Not Reported   |

**S77**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000128696**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606729806-MW-2  | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW-2       |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606729806&amp;assigned_name=MW-2&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606729806&amp;assigned_name=MW-2&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606729806&amp;assigned_name=MW-2">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606729806&amp;assigned_name=MW-2</a>   |             |            |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**U78**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CALLNL00000605**

|                           |  |                    |                |
|---------------------------|--|--------------------|----------------|
| Well ID:                  | 101284                                 | Well Type:         | MUNICIPAL      |
| Source:                   | Lawrence Livermore National Laboratory |                    |                |
| Other Name:               | 09N/05E-20R01 M                        | GAMA PFAS Testing: | Not Reported   |
| Groundwater Quality Data: | Not Reported                           |                    |                |
| GeoTracker Data:          | Not Reported                           |                    |                |
|                           |  |                    |                |
| Chemical:                 | Neon                                   | Results:           | .00000281077   |
| Units:                    | cm3STP/g                               | Date:              | 11/20/2002     |
|                           |  |                    |                |
| Chemical:                 | Argon                                  | Results:           | .000426979     |
| Units:                    | cm3STP/g                               | Date:              | 11/20/2002     |
|                           |  |                    |                |
| Chemical:                 | Helium-4                               | Results:           | .00000201675   |
| Units:                    | cm3STP/g                               | Date:              | 11/20/2002     |
|                           |  |                    |                |
| Chemical:                 | Xenon                                  | Results:           | .0000000129014 |
| Units:                    | cm3STP/g                               | Date:              | 11/20/2002     |
|                           |  |                    |                |
| Chemical:                 | Helium-3/Helium-4                      | Results:           | .000000487302  |
| Units:                    | atom ratio                             | Date:              | 11/20/2002     |
|                           |  |                    |                |
| Chemical:                 | Krypton                                | Results:           | .0000000922508 |
| Units:                    | cm3STP/g                               | Date:              | 11/20/2002     |
|                           |  |                    |                |
| Chemical:                 | Tritium (Hydrogen 3)                   | Results:           | 1.26           |
| Units:                    | pCi/L                                  | Date:              | 12/23/2002     |

**S79**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000064294**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606729806-MW-3  | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | MW-3       |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606729806&amp;assigned_name=MW-3&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606729806&amp;assigned_name=MW-3&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606729806&amp;assigned_name=MW-3">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606729806&amp;assigned_name=MW-3</a>   |             |            |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**P80**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CADDW0000013737**

|                           |   |                    |              |
|---------------------------|---|--------------------|--------------|
| Well ID:                  | 3400259-002   | Well Type:         | MUNICIPAL    |
| Source:                   | Department of Health Services   |                    |              |
| Other Name:               | SECONDARY WELL  | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3400259-002&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3400259-002&amp;store_num=</a> |                    |              |
| GeoTracker Data:          | Not Reported  |                    |              |

**Q81**  
**East**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CADDW0000006461**

|                           |   |                    |              |
|---------------------------|---|--------------------|--------------|
| Well ID:                  | 3410020-033   | Well Type:         | MUNICIPAL    |
| Source:                   | Department of Health Services   |                    |              |
| Other Name:               | WELL 127  | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-033&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-033&amp;store_num=</a> |                    |              |
| GeoTracker Data:          | Not Reported  |                    |              |

**R82**  
**North**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CADDW0000015196**

|                           |   |                    |              |
|---------------------------|---|--------------------|--------------|
| Well ID:                  | 3410020-034   | Well Type:         | MUNICIPAL    |
| Source:                   | Department of Health Services   |                    |              |
| Other Name:               | WELL 129  | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-034&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-034&amp;store_num=</a> |                    |              |
| GeoTracker Data:          | Not Reported  |                    |              |

**U83**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CADDW0000022718**

|                           |   |                    |              |
|---------------------------|---|--------------------|--------------|
| Well ID:                  | 3410020-024   | Well Type:         | MUNICIPAL    |
| Source:                   | Department of Health Services   |                    |              |
| Other Name:               | WELL 116  | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-024&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-024&amp;store_num=</a> |                    |              |
| GeoTracker Data:          | Not Reported  |                    |              |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**T84**  
**North**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CALLNL000000074**

|                           |  |                    |              |
|---------------------------|--|--------------------|--------------|
| Well ID:                  | 101283                                 | Well Type:         | MUNICIPAL    |
| Source:                   | Lawrence Livermore National Laboratory |                    |              |
| Other Name:               | 09N/05E-16D01 M                        | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | Not Reported                           |                    |              |
| GeoTracker Data:          | Not Reported                           |                    |              |

|           |          |          |               |
|-----------|----------|----------|---------------|
| Chemical: | Neon     | Results: | .000000245553 |
| Units:    | cm3STP/g | Date:    | 11/20/2002    |

|           |                   |          |              |
|-----------|-------------------|----------|--------------|
| Chemical: | Helium-3/Helium-4 | Results: | .00000046778 |
| Units:    | atom ratio        | Date:    | 11/20/2002   |

|           |          |          |               |
|-----------|----------|----------|---------------|
| Chemical: | Xenon    | Results: | .000000011542 |
| Units:    | cm3STP/g | Date:    | 11/20/2002    |

|           |          |          |                |
|-----------|----------|----------|----------------|
| Chemical: | Krypton  | Results: | .0000000833805 |
| Units:    | cm3STP/g | Date:    | 11/20/2002     |

|           |          |          |            |
|-----------|----------|----------|------------|
| Chemical: | Argon    | Results: | .000380054 |
| Units:    | cm3STP/g | Date:    | 11/20/2002 |

|           |          |          |             |
|-----------|----------|----------|-------------|
| Chemical: | Helium-4 | Results: | .0000013438 |
| Units:    | cm3STP/g | Date:    | 11/20/2002  |

|           |                      |          |            |
|-----------|----------------------|----------|------------|
| Chemical: | Tritium (Hydrogen 3) | Results: | .2         |
| Units:    | pCi/L                | Date:    | 12/23/2002 |

**V85**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CADDW0000017956**

|                           |   |                    |              |
|---------------------------|---|--------------------|--------------|
| Well ID:                  | 3410020-030   | Well Type:         | MUNICIPAL    |
| Source:                   | Department of Health Services   |                    |              |
| Other Name:               | WELL 124  | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-030&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-030&amp;store_num=</a> |                    |              |
| GeoTracker Data:          | Not Reported  |                    |              |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**U86**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000189527**

|                        |                                      |                              |              |
|------------------------|--------------------------------------|------------------------------|--------------|
| Organization ID:       | USGS-CA                              | Type:                        | Well         |
| Organization Name:     | USGS California Water Science Center | HUC:                         | 18020111     |
| Monitor Location:      | 009N005E20R001M                      | Drainage Area Units:         | Not Reported |
| Description:           | Not Reported                         | Contrib Drainage Area Units: | Not Reported |
| Drainage Area:         | Not Reported                         | Aquifer Type:                | Not Reported |
| Contrib Drainage Area: | Not Reported                         | Well Depth:                  | 340          |
| Aquifer:               | Central Valley aquifer system        | Well Hole Depth:             | 519          |
| Formation Type:        | Not Reported                         |                              |              |
| Construction Date:     | 19561206                             |                              |              |
| Well Depth Units:      | ft                                   |                              |              |
| Well Hole Depth Units: | ft                                   |                              |              |

**R87**  
**North**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      9008**

|              |                               |               |                       |
|--------------|-------------------------------|---------------|-----------------------|
| Seq:         | 9008                          | Prim sta c:   | 09N/05E-16D01 M       |
| Frds no:     | 3410020034                    | County:       | 34                    |
| District:    | 09                            | User id:      | TEN                   |
| System no:   | 3410020                       | Water type:   | G                     |
| Source nam:  | WELL 129                      | Station ty:   | WELL/AMBNT/MUN/INTAKE |
| Latitude:    | 383820.0                      | Longitude:    | 1212645.0             |
| Precision:   | 4                             | Status:       | AR                    |
| Comment 1:   | Not Reported                  | Comment 2:    | Not Reported          |
| Comment 3:   | Not Reported                  | Comment 4:    | Not Reported          |
| Comment 5:   | Not Reported                  | Comment 6:    | Not Reported          |
| Comment 7:   | Not Reported                  |               |                       |
| System no:   | 3410020                       | System nam:   | Sacramento, City Of   |
| Hqname:      | SACRAMENTO CITY-DIV WTR & SWR | Address:      | 1391 35th Avenue      |
| City:        | Sacramento                    | State:        | Ca                    |
| Zip:         | 95822                         | Zip ext:      | Not Reported          |
| Pop serv:    | 374600                        | Connection:   | 120339                |
| Area serve:  | SACRAMENTO MAIN               |               |                       |
| Sample date: | 12-MAR-18                     | Finding:      | 284.                  |
| Chemical:    | TOTAL DISSOLVED SOLIDS        | Report units: | MG/L                  |
| Dir:         | 0.                            |               |                       |
| Sample date: | 27-FEB-18                     | Finding:      | 126.                  |
| Chemical:    | ALKALINITY (TOTAL) AS CaCO3   | Report units: | MG/L                  |
| Dir:         | 0.                            |               |                       |
| Sample date: | 27-FEB-18                     | Finding:      | 25.                   |
| Chemical:    | SODIUM                        | Report units: | MG/L                  |
| Dir:         | 0.                            |               |                       |
| Sample date: | 27-FEB-18                     | Finding:      | 19.                   |
| Chemical:    | MAGNESIUM                     | Report units: | MG/L                  |
| Dir:         | 0.                            |               |                       |
| Sample date: | 27-FEB-18                     | Finding:      | 3.                    |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|                                   |   |                           |                      |
|-----------------------------------|---|---------------------------|----------------------|
| Chemical:<br>Dir:                 | NITRATE + NITRITE (AS N)<br>0.4                   | Report units:             | MG/L                 |
| Sample date:<br>Chemical:<br>Dir: | 27-FEB-18<br>AGGRSSIVE INDEX (CORROSIVITY)<br>0.  | Finding:<br>Report units: | 12.1<br>Not Reported |
| Sample date:<br>Chemical:<br>Dir: | 27-FEB-18<br>TURBIDITY, LABORATORY<br>0.1         | Finding:<br>Report units: | 8.e-002<br>NTU       |
| Sample date:<br>Chemical:<br>Dir: | 27-FEB-18<br>ARSENIC<br>2.                        | Finding:<br>Report units: | 2.4<br>UG/L          |
| Sample date:<br>Chemical:<br>Dir: | 27-FEB-18<br>FLUORIDE (F) (NATURAL-SOURCE)<br>0.1 | Finding:<br>Report units: | 0.2<br>MG/L          |
| Sample date:<br>Chemical:<br>Dir: | 27-FEB-18<br>SULFATE<br>0.5                       | Finding:<br>Report units: | 12.2<br>MG/L         |
| Sample date:<br>Chemical:<br>Dir: | 27-FEB-18<br>CHLORIDE<br>0.                       | Finding:<br>Report units: | 36.8<br>MG/L         |
| Sample date:<br>Chemical:<br>Dir: | 27-FEB-18<br>CALCIUM<br>0.                        | Finding:<br>Report units: | 26.4<br>MG/L         |
| Sample date:<br>Chemical:<br>Dir: | 27-FEB-18<br>HARDNESS (TOTAL) AS CaCO3<br>0.      | Finding:<br>Report units: | 145.<br>MG/L         |
| Sample date:<br>Chemical:<br>Dir: | 27-FEB-18<br>NITRATE (AS N)<br>0.4                | Finding:<br>Report units: | 3.<br>MG/L           |
| Sample date:<br>Chemical:<br>Dir: | 27-FEB-18<br>SPECIFIC CONDUCTANCE<br>0.           | Finding:<br>Report units: | 410.<br>US           |
| Sample date:<br>Chemical:<br>Dir: | 27-FEB-18<br>PH, LABORATORY<br>0.                 | Finding:<br>Report units: | 8.2<br>Not Reported  |
| Sample date:<br>Chemical:<br>Dir: | 27-FEB-18<br>BICARBONATE ALKALINITY<br>0.         | Finding:<br>Report units: | 153.<br>MG/L         |
| Sample date:<br>Chemical:<br>Dir: | 10-JUL-17<br>CHROMIUM, HEXAVALENT<br>1.           | Finding:<br>Report units: | 6.8<br>UG/L          |
| Sample date:<br>Chemical:<br>Dir: | 09-MAY-17<br>NITRATE (AS N)<br>0.4                | Finding:<br>Report units: | 2.7<br>MG/L          |
| Sample date:<br>Chemical:<br>Dir: | 10-APR-17<br>CHROMIUM, HEXAVALENT<br>1.           | Finding:<br>Report units: | 7.3<br>UG/L          |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |   |               |              |
|--------------|---|---------------|--------------|
| Sample date: | 09-JAN-17                               | Finding:      | 7.8          |
| Chemical:    | CHROMIUM, HEXAVALENT                    | Report units: | UG/L         |
| Dir:         | 1.                                      |               |              |
| Sample date: | 11-OCT-16                               | Finding:      | 2.8          |
| Chemical:    | NITRATE (AS N)                          | Report units: | MG/L         |
| Dir:         | 0.4                                     |               |              |
| Sample date: | 11-OCT-16                               | Finding:      | 7.2          |
| Chemical:    | CHROMIUM, HEXAVALENT                    | Report units: | UG/L         |
| Dir:         | 1.                                      |               |              |
| Sample date: | 07-JUL-16                               | Finding:      | 6.6          |
| Chemical:    | CHROMIUM, HEXAVALENT                    | Report units: | UG/L         |
| Dir:         | 1.                                      |               |              |
| Sample date: | 06-APR-16                               | Finding:      | 7.1          |
| Chemical:    | CHROMIUM, HEXAVALENT                    | Report units: | UG/L         |
| Dir:         | 1.                                      |               |              |
| Sample date: | 14-MAR-16                               | Finding:      | 0.14         |
| Chemical:    | FLUORIDE (F) (NATURAL-SOURCE)           | Report units: | MG/L         |
| Dir:         | 0.1                                     |               |              |
| Sample date: | 14-MAR-16                               | Finding:      | 0.14         |
| Chemical:    | FLUORIDE (F) (NATURAL-SOURCE)           | Report units: | MG/L         |
| Dir:         | 0.1                                     |               |              |
| Sample date: | 02-FEB-16                               | Finding:      | 1.           |
| Chemical:    | COLOR                                   | Report units: | UNITS        |
| Dir:         | 0.                                      |               |              |
| Sample date: | 02-FEB-16                               | Finding:      | 1.           |
| Chemical:    | COLOR                                   | Report units: | UNITS        |
| Dir:         | 0.                                      |               |              |
| Sample date: | 02-FEB-16                               | Finding:      | 390.         |
| Chemical:    | SPECIFIC CONDUCTANCE                    | Report units: | US           |
| Dir:         | 0.                                      |               |              |
| Sample date: | 02-FEB-16                               | Finding:      | 7.5          |
| Chemical:    | PH, LABORATORY                          | Report units: | Not Reported |
| Dir:         | 0.                                      |               |              |
| Sample date: | 02-FEB-16                               | Finding:      | 120.         |
| Chemical:    | ALKALINITY (TOTAL) AS CaCO <sub>3</sub> | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 02-FEB-16                               | Finding:      | 146.         |
| Chemical:    | BICARBONATE ALKALINITY                  | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 02-FEB-16                               | Finding:      | 146.         |
| Chemical:    | BICARBONATE ALKALINITY                  | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 02-FEB-16                               | Finding:      | 2.7          |
| Chemical:    | NITRATE (AS N)                          | Report units: | MG/L         |
| Dir:         | 0.4                                     |               |              |
| Sample date: | 02-FEB-16                               | Finding:      | 138.         |
| Chemical:    | HARDNESS (TOTAL) AS CaCO <sub>3</sub>   | Report units: | MG/L         |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |                               |               |         |
|--------------|-------------------------------|---------------|---------|
| Dir:         | 0.                            |               |         |
| Sample date: | 02-FEB-16                     | Finding:      | 22.6    |
| Chemical:    | CALCIUM                       | Report units: | MG/L    |
| Dir:         | 0.                            |               |         |
| Sample date: | 02-FEB-16                     | Finding:      | 18.4    |
| Chemical:    | MAGNESIUM                     | Report units: | MG/L    |
| Dir:         | 0.                            |               |         |
| Sample date: | 02-FEB-16                     | Finding:      | 25.     |
| Chemical:    | SODIUM                        | Report units: | MG/L    |
| Dir:         | 0.                            |               |         |
| Sample date: | 02-FEB-16                     | Finding:      | 2.1     |
| Chemical:    | POTASSIUM                     | Report units: | MG/L    |
| Dir:         | 0.                            |               |         |
| Sample date: | 02-FEB-16                     | Finding:      | 35.2    |
| Chemical:    | CHLORIDE                      | Report units: | MG/L    |
| Dir:         | 0.                            |               |         |
| Sample date: | 02-FEB-16                     | Finding:      | 11.6    |
| Chemical:    | SULFATE                       | Report units: | MG/L    |
| Dir:         | 0.5                           |               |         |
| Sample date: | 02-FEB-16                     | Finding:      | 0.14    |
| Chemical:    | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L    |
| Dir:         | 0.1                           |               |         |
| Sample date: | 02-FEB-16                     | Finding:      | 2.7     |
| Chemical:    | ARSENIC                       | Report units: | UG/L    |
| Dir:         | 2.                            |               |         |
| Sample date: | 02-FEB-16                     | Finding:      | 2.7     |
| Chemical:    | ARSENIC                       | Report units: | UG/L    |
| Dir:         | 2.                            |               |         |
| Sample date: | 02-FEB-16                     | Finding:      | 52.5    |
| Chemical:    | ALUMINUM                      | Report units: | UG/L    |
| Dir:         | 50.                           |               |         |
| Sample date: | 02-FEB-16                     | Finding:      | 288.    |
| Chemical:    | TOTAL DISSOLVED SOLIDS        | Report units: | MG/L    |
| Dir:         | 0.                            |               |         |
| Sample date: | 02-FEB-16                     | Finding:      | 7.e-002 |
| Chemical:    | TURBIDITY, LABORATORY         | Report units: | NTU     |
| Dir:         | 0.1                           |               |         |
| Sample date: | 02-FEB-16                     | Finding:      | 7.e-002 |
| Chemical:    | TURBIDITY, LABORATORY         | Report units: | NTU     |
| Dir:         | 0.1                           |               |         |
| Sample date: | 02-FEB-16                     | Finding:      | 2.7     |
| Chemical:    | NITRATE + NITRITE (AS N)      | Report units: | MG/L    |
| Dir:         | 0.4                           |               |         |
| Sample date: | 02-FEB-16                     | Finding:      | 2.7     |
| Chemical:    | NITRATE + NITRITE (AS N)      | Report units: | MG/L    |
| Dir:         | 0.4                           |               |         |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |   |               |              |
|--------------|---|---------------|--------------|
| Sample date: | 02-FEB-16                               | Finding:      | 380.         |
| Chemical:    | SPECIFIC CONDUCTANCE                    | Report units: | US           |
| Dir:         | 0.                                      |               |              |
| Sample date: | 02-FEB-16                               | Finding:      | 7.8          |
| Chemical:    | PH, LABORATORY                          | Report units: | Not Reported |
| Dir:         | 0.                                      |               |              |
| Sample date: | 02-FEB-16                               | Finding:      | 120.         |
| Chemical:    | ALKALINITY (TOTAL) AS CaCO <sub>3</sub> | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 02-FEB-16                               | Finding:      | 140.         |
| Chemical:    | BICARBONATE ALKALINITY                  | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 02-FEB-16                               | Finding:      | 130.         |
| Chemical:    | HARDNESS (TOTAL) AS CaCO <sub>3</sub>   | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 02-FEB-16                               | Finding:      | 24.          |
| Chemical:    | CALCIUM                                 | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 02-FEB-16                               | Finding:      | 18.          |
| Chemical:    | MAGNESIUM                               | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 02-FEB-16                               | Finding:      | 6.9          |
| Chemical:    | CHROMIUM, HEXAVALENT                    | Report units: | UG/L         |
| Dir:         | 1.                                      |               |              |
| Sample date: | 02-FEB-16                               | Finding:      | 12.          |
| Chemical:    | AGGRSSIVE INDEX (CORROSIVITY)           | Report units: | Not Reported |
| Dir:         | 0.                                      |               |              |
| Sample date: | 15-OCT-15                               | Finding:      | 0.11         |
| Chemical:    | FLUORIDE (F) (NATURAL-SOURCE)           | Report units: | MG/L         |
| Dir:         | 0.1                                     |               |              |
| Sample date: | 15-OCT-15                               | Finding:      | 3.1          |
| Chemical:    | NITRATE (AS N)                          | Report units: | MG/L         |
| Dir:         | 0.4                                     |               |              |
| Sample date: | 15-OCT-15                               | Finding:      | 6.8          |
| Chemical:    | CHROMIUM, HEXAVALENT                    | Report units: | UG/L         |
| Dir:         | 1.                                      |               |              |
| Sample date: | 15-OCT-15                               | Finding:      | 3060.        |
| Chemical:    | NITRATE + NITRITE (AS N)                | Report units: | MG/L         |
| Dir:         | 0.4                                     |               |              |
| Sample date: | 15-OCT-13                               | Finding:      | 7.9          |
| Chemical:    | NITRATE (AS NO <sub>3</sub> )           | Report units: | MG/L         |
| Dir:         | 2.                                      |               |              |
| Sample date: | 10-OCT-12                               | Finding:      | 0.4          |
| Chemical:    | RADIUM 228 MDA95                        | Report units: | PCI/L        |
| Dir:         | 0.                                      |               |              |
| Sample date: | 10-OCT-12                               | Finding:      | 1.65         |
| Chemical:    | GROSS ALPHA MDA95                       | Report units: | PCI/L        |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |                            |               |       |
|--------------|----------------------------|---------------|-------|
| Dir:         | 0.                         |               |       |
| Sample date: | 10-OCT-12                  | Finding:      | 1.27  |
| Chemical:    | RADIUM 228 COUNTING ERROR  | Report units: | PCI/L |
| Dir:         | 0.                         |               |       |
| Sample date: | 10-OCT-12                  | Finding:      | 1.33  |
| Chemical:    | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dir:         | 0.                         |               |       |
| Sample date: | 10-OCT-12                  | Finding:      | 7.8   |
| Chemical:    | NITRATE (AS NO3)           | Report units: | MG/L  |
| Dir:         | 2.                         |               |       |

**V88**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000189596**

|                        |                                      |                             |              |
|------------------------|--------------------------------------|-----------------------------|--------------|
| Organization ID:       | USGS-CA                              |                             |              |
| Organization Name:     | USGS California Water Science Center |                             |              |
| Monitor Location:      | 009N005E20D001M                      | Type:                       | Well         |
| Description:           | Not Reported                         | HUC:                        | 18020111     |
| 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:     | 19590505                             | Well Depth:                 | 306          |
| Well Depth Units:      | ft                                   | Well Hole Depth:            | 306          |
| Well Hole Depth Units: | ft                                   |                             |              |

**W89**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000082220**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606700965-S-9   | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | S-9        |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606700965&amp;assigned_name=S-9&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606700965&amp;assigned_name=S-9&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606700965&amp;assigned_name=S-9">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606700965&amp;assigned_name=S-9</a>   |             |            |

**90**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      9023**

|             |              |             |                       |
|-------------|--------------|-------------|-----------------------|
| Seq:        | 9023         | Prim sta c: | 09N/05E-20R01 M       |
| Frds no:    | 3410020024   | County:     | 34                    |
| District:   | 09           | User id:    | TEN                   |
| System no:  | 3410020      | Water type: | G                     |
| Source nam: | WELL 116     | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude:   | 383645.0     | Longitude:  | 1212700.0             |
| Precision:  | 4            | Status:     | AR                    |
| Comment 1:  | Not Reported | Comment 2:  | Not Reported          |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |                               |               |                     |
|--------------|-------------------------------|---------------|---------------------|
| Comment 3:   | Not Reported                  | Comment 4:    | Not Reported        |
| Comment 5:   | Not Reported                  | Comment 6:    | Not Reported        |
| Comment 7:   | Not Reported                  |               |                     |
|              |                               |               |                     |
| System no:   | 3410020                       | System nam:   | Sacramento, City Of |
| Hqname:      | SACRAMENTO CITY-DIV WTR & SWR | Address:      | 1391 35th Avenue    |
| City:        | Sacramento                    | State:        | Ca                  |
| Zip:         | 95822                         | Zip ext:      | Not Reported        |
| Pop serv:    | 374600                        | Connection:   | 120339              |
| Area serve:  | SACRAMENTO MAIN               |               |                     |
|              |                               |               |                     |
| Sample date: | 10-OCT-12                     | Finding:      | 8.7e-002            |
| Chemical:    | RADIUM 228                    | Report units: | PCI/L               |
| Dir:         | 1.                            |               |                     |
|              |                               |               |                     |
| Sample date: | 10-OCT-12                     | Finding:      | 0.79                |
| Chemical:    | TETRACHLOROETHYLENE           | Report units: | UG/L                |
| Dir:         | 0.5                           |               |                     |
|              |                               |               |                     |
| Sample date: | 10-OCT-12                     | Finding:      | 0.4                 |
| Chemical:    | RADIUM 228 MDA95              | Report units: | PCI/L               |
| Dir:         | 0.                            |               |                     |
|              |                               |               |                     |
| Sample date: | 10-OCT-12                     | Finding:      | 1.31                |
| Chemical:    | GROSS ALPHA COUNTING ERROR    | Report units: | PCI/L               |
| Dir:         | 0.                            |               |                     |
|              |                               |               |                     |
| Sample date: | 10-OCT-12                     | Finding:      | 6.8                 |
| Chemical:    | NITRATE (AS NO3)              | Report units: | MG/L                |
| Dir:         | 2.                            |               |                     |
|              |                               |               |                     |
| Sample date: | 10-OCT-12                     | Finding:      | 1.18                |
| Chemical:    | RADIUM 228 COUNTING ERROR     | Report units: | PCI/L               |
| Dir:         | 0.                            |               |                     |
|              |                               |               |                     |
| Sample date: | 10-OCT-12                     | Finding:      | 1.28                |
| Chemical:    | GROSS ALPHA MDA95             | Report units: | PCI/L               |
| Dir:         | 0.                            |               |                     |
|              |                               |               |                     |
| Sample date: | 09-JUL-12                     | Finding:      | 0.95                |
| Chemical:    | TETRACHLOROETHYLENE           | Report units: | UG/L                |
| Dir:         | 0.5                           |               |                     |
|              |                               |               |                     |
| Sample date: | 09-APR-12                     | Finding:      | 0.87                |
| Chemical:    | TETRACHLOROETHYLENE           | Report units: | UG/L                |
| Dir:         | 0.5                           |               |                     |
|              |                               |               |                     |
| Sample date: | 11-JAN-12                     | Finding:      | 0.8                 |
| Chemical:    | TETRACHLOROETHYLENE           | Report units: | UG/L                |
| Dir:         | 0.5                           |               |                     |

**91  
SW  
1/2 - 1 Mile  
Lower**

**CA WELLS 9021**

|             |                      |             |                       |
|-------------|----------------------|-------------|-----------------------|
| Seq:        | 9021                 | Prim sta c: | 09N/05E-20P01 M       |
| Frds no:    | 3410020043           | County:     | 34                    |
| District:   | 09                   | User id:    | TEN                   |
| System no:  | 3410020              | Water type: | G                     |
| Source nam: | WELL 141 - ABANDONED | Station ty: | WELL/AMBNT/MUN/INTAKE |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|             |                               |             |                     |
|-------------|-------------------------------|-------------|---------------------|
| Latitude:   | 383700.0                      | Longitude:  | 1212730.0           |
| Precision:  | 4                             | Status:     | AB                  |
| Comment 1:  | Not Reported                  | Comment 2:  | Not Reported        |
| Comment 3:  | Not Reported                  | Comment 4:  | Not Reported        |
| Comment 5:  | Not Reported                  | Comment 6:  | Not Reported        |
| Comment 7:  | Not Reported                  |             |                     |
|             |                               |             |                     |
| System no:  | 3410020                       | System nam: | Sacramento, City Of |
| Hqname:     | SACRAMENTO CITY-DIV WTR & SWR | Address:    | 1391 35th Avenue    |
| City:       | Sacramento                    | State:      | Ca                  |
| Zip:        | 95822                         | Zip ext:    | Not Reported        |
| Pop serv:   | 374600                        | Connection: | 120339              |
| Area serve: | SACRAMENTO MAIN               |             |                     |

**W92**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000119685**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606700965-S-10  | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | S-10       |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606700965&amp;assigned_name=S-10&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606700965&amp;assigned_name=S-10&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606700965&amp;assigned_name=S-10">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606700965&amp;assigned_name=S-10</a>   |             |            |

**X93**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CADWR0000007909**

|                           |   |                    |              |
|---------------------------|---|--------------------|--------------|
| Well ID:                  | 09N05E21E001M   | Well Type:         | UNK          |
| Source:                   | Department of Water Resources   |                    |              |
| Other Name:               | 09N05E21E001M   | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&amp;samp_date=&amp;global_id=&amp;assigned_name=09N05E21E001M&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&amp;samp_date=&amp;global_id=&amp;assigned_name=09N05E21E001M&amp;store_num=</a> |                    |              |
| GeoTracker Data:          | Not Reported  |                    |              |

**X94**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CADWR00000020618**

|                           |   |                    |              |
|---------------------------|---|--------------------|--------------|
| Well ID:                  | 09N05E21E002M   | Well Type:         | UNK          |
| Source:                   | Department of Water Resources   |                    |              |
| Other Name:               | 09N05E21E002M   | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&amp;samp_date=&amp;global_id=&amp;assigned_name=09N05E21E002M&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&amp;samp_date=&amp;global_id=&amp;assigned_name=09N05E21E002M&amp;store_num=</a> |                    |              |
| GeoTracker Data:          | Not Reported  |                    |              |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**Y95**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CADDW0000005459**

|                           |   |                    |              |
|---------------------------|---|--------------------|--------------|
| Well ID:                  | 3410020-025   | Well Type:         | MUNICIPAL    |
| Source:                   | Department of Health Services   |                    |              |
| Other Name:               | WELL 117  | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-025&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-025&amp;store_num=</a> |                    |              |
| GeoTracker Data:          | Not Reported  |                    |              |

**V96**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      9020**

|             |              |             |                       |
|-------------|--------------|-------------|-----------------------|
| Seq:        | 9020         | Prim sta c: | 09N/05E-20D01 M       |
| Frds no:    | 3410020030   | County:     | 34                    |
| District:   | 09           | User id:    | TEN                   |
| System no:  | 3410020      | Water type: | G                     |
| Source nam: | WELL 124     | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude:   | 383730.0     | Longitude:  | 1212745.0             |
| Precision:  | 4            | Status:     | AR                    |
| Comment 1:  | Not Reported | Comment 2:  | Not Reported          |
| Comment 3:  | Not Reported | Comment 4:  | Not Reported          |
| Comment 5:  | Not Reported | Comment 6:  | Not Reported          |
| Comment 7:  | Not Reported |             |                       |

|             |                               |             |                     |
|-------------|-------------------------------|-------------|---------------------|
| System no:  | 3410020                       | System nam: | Sacramento, City Of |
| Hqname:     | SACRAMENTO CITY-DIV WTR & SWR | Address:    | 1391 35th Avenue    |
| City:       | Sacramento                    | State:      | Ca                  |
| Zip:        | 95822                         | Zip ext:    | Not Reported        |
| Pop serv:   | 374600                        | Connection: | 120339              |
| Area serve: | SACRAMENTO MAIN               |             |                     |

|              |                |               |      |
|--------------|----------------|---------------|------|
| Sample date: | 26-FEB-18      | Finding:      | 1.6  |
| Chemical:    | NITRATE (AS N) | Report units: | MG/L |
| Dir:         | 0.4            |               |      |

|              |                        |               |      |
|--------------|------------------------|---------------|------|
| Sample date: | 08-MAY-17              | Finding:      | 207. |
| Chemical:    | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dir:         | 0.                     |               |      |

|              |                             |               |      |
|--------------|-----------------------------|---------------|------|
| Sample date: | 08-MAY-17                   | Finding:      | 170. |
| Chemical:    | ALKALINITY (TOTAL) AS CaCO3 | Report units: | MG/L |
| Dir:         | 0.                          |               |      |

|              |                |               |              |
|--------------|----------------|---------------|--------------|
| Sample date: | 08-MAY-17      | Finding:      | 7.6          |
| Chemical:    | PH, LABORATORY | Report units: | Not Reported |
| Dir:         | 0.             |               |              |

|              |                      |               |      |
|--------------|----------------------|---------------|------|
| Sample date: | 08-MAY-17            | Finding:      | 470. |
| Chemical:    | SPECIFIC CONDUCTANCE | Report units: | US   |
| Dir:         | 0.                   |               |      |

|              |           |               |       |
|--------------|-----------|---------------|-------|
| Sample date: | 08-MAY-17 | Finding:      | 1.    |
| Chemical:    | COLOR     | Report units: | UNITS |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |                               |               |              |
|--------------|-------------------------------|---------------|--------------|
| Dir:         | 0.                            |               |              |
| Sample date: | 08-MAY-17                     | Finding:      | 3.7          |
| Chemical:    | CHROMIUM, HEXAVALENT          | Report units: | UG/L         |
| Dir:         | 1.                            |               |              |
| Sample date: | 08-MAY-17                     | Finding:      | 33.          |
| Chemical:    | SODIUM                        | Report units: | MG/L         |
| Dir:         | 0.                            |               |              |
| Sample date: | 08-MAY-17                     | Finding:      | 22.          |
| Chemical:    | MAGNESIUM                     | Report units: | MG/L         |
| Dir:         | 0.                            |               |              |
| Sample date: | 08-MAY-17                     | Finding:      | 29.          |
| Chemical:    | CALCIUM                       | Report units: | MG/L         |
| Dir:         | 0.                            |               |              |
| Sample date: | 08-MAY-17                     | Finding:      | 182.         |
| Chemical:    | HARDNESS (TOTAL) AS CaCO3     | Report units: | MG/L         |
| Dir:         | 0.                            |               |              |
| Sample date: | 08-MAY-17                     | Finding:      | 1.6          |
| Chemical:    | NITRATE (AS N)                | Report units: | MG/L         |
| Dir:         | 0.4                           |               |              |
| Sample date: | 08-MAY-17                     | Finding:      | 7.e-002      |
| Chemical:    | TURBIDITY, LABORATORY         | Report units: | NTU          |
| Dir:         | 0.1                           |               |              |
| Sample date: | 08-MAY-17                     | Finding:      | 11.6         |
| Chemical:    | AGGRSSIVE INDEX (CORROSIVITY) | Report units: | Not Reported |
| Dir:         | 0.                            |               |              |
| Sample date: | 08-MAY-17                     | Finding:      | 1.6          |
| Chemical:    | NITRATE + NITRITE (AS N)      | Report units: | MG/L         |
| Dir:         | 0.4                           |               |              |
| Sample date: | 08-MAY-17                     | Finding:      | 37.5         |
| Chemical:    | CHLORIDE                      | Report units: | MG/L         |
| Dir:         | 0.                            |               |              |
| Sample date: | 08-MAY-17                     | Finding:      | 13.7         |
| Chemical:    | SULFATE                       | Report units: | MG/L         |
| Dir:         | 0.5                           |               |              |
| Sample date: | 08-MAY-17                     | Finding:      | 321.         |
| Chemical:    | TOTAL DISSOLVED SOLIDS        | Report units: | MG/L         |
| Dir:         | 0.                            |               |              |
| Sample date: | 11-OCT-16                     | Finding:      | 1.6          |
| Chemical:    | NITRATE (AS N)                | Report units: | MG/L         |
| Dir:         | 0.4                           |               |              |
| Sample date: | 15-OCT-15                     | Finding:      | 1550.        |
| Chemical:    | NITRATE + NITRITE (AS N)      | Report units: | MG/L         |
| Dir:         | 0.4                           |               |              |
| Sample date: | 15-OCT-15                     | Finding:      | 0.13         |
| Chemical:    | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L         |
| Dir:         | 0.1                           |               |              |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |                               |               |      |
|--------------|-------------------------------|---------------|------|
| Sample date: | 15-OCT-15                     | Finding:      | 3.8  |
| Chemical:    | CHROMIUM, HEXAVALENT          | Report units: | UG/L |
| Dir:         | 1.                            |               |      |
| Sample date: | 15-OCT-15                     | Finding:      | 1.6  |
| Chemical:    | NITRATE (AS N)                | Report units: | MG/L |
| Dir:         | 0.4                           |               |      |
| Sample date: | 14-OCT-14                     | Finding:      | 6.9  |
| Chemical:    | NITRATE (AS NO3)              | Report units: | MG/L |
| Dir:         | 2.                            |               |      |
| Sample date: | 08-SEP-14                     | Finding:      | 0.11 |
| Chemical:    | TURBIDITY, LABORATORY         | Report units: | NTU  |
| Dir:         | 0.1                           |               |      |
| Sample date: | 08-SEP-14                     | Finding:      | 7.1  |
| Chemical:    | NITRATE (AS NO3)              | Report units: | MG/L |
| Dir:         | 2.                            |               |      |
| Sample date: | 08-SEP-14                     | Finding:      | 306. |
| Chemical:    | TOTAL DISSOLVED SOLIDS        | Report units: | MG/L |
| Dir:         | 0.                            |               |      |
| Sample date: | 08-SEP-14                     | Finding:      | 2.5  |
| Chemical:    | ARSENIC                       | Report units: | UG/L |
| Dir:         | 2.                            |               |      |
| Sample date: | 08-SEP-14                     | Finding:      | 0.19 |
| Chemical:    | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dir:         | 0.1                           |               |      |
| Sample date: | 08-SEP-14                     | Finding:      | 13.2 |
| Chemical:    | SULFATE                       | Report units: | MG/L |
| Dir:         | 0.5                           |               |      |
| Sample date: | 08-SEP-14                     | Finding:      | 37.3 |
| Chemical:    | CHLORIDE                      | Report units: | MG/L |
| Dir:         | 0.                            |               |      |
| Sample date: | 08-SEP-14                     | Finding:      | 2.5  |
| Chemical:    | POTASSIUM                     | Report units: | MG/L |
| Dir:         | 0.                            |               |      |
| Sample date: | 08-SEP-14                     | Finding:      | 31.3 |
| Chemical:    | SODIUM                        | Report units: | MG/L |
| Dir:         | 0.                            |               |      |
| Sample date: | 08-SEP-14                     | Finding:      | 20.2 |
| Chemical:    | MAGNESIUM                     | Report units: | MG/L |
| Dir:         | 0.                            |               |      |
| Sample date: | 08-SEP-14                     | Finding:      | 25.5 |
| Chemical:    | CALCIUM                       | Report units: | MG/L |
| Dir:         | 0.                            |               |      |
| Sample date: | 08-SEP-14                     | Finding:      | 161. |
| Chemical:    | HARDNESS (TOTAL) AS CaCO3     | Report units: | MG/L |
| Dir:         | 0.                            |               |      |
| Sample date: | 08-SEP-14                     | Finding:      | 158. |
| Chemical:    | BICARBONATE ALKALINITY        | Report units: | MG/L |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |   |               |              |
|--------------|---|---------------|--------------|
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 158.         |
| Chemical:    | ALKALINITY (TOTAL) AS CaCO <sub>3</sub> | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 7.3          |
| Chemical:    | PH, LABORATORY                          | Report units: | Not Reported |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 450.         |
| Chemical:    | SPECIFIC CONDUCTANCE                    | Report units: | US           |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 1.           |
| Chemical:    | COLOR                                   | Report units: | UNITS        |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 12.          |
| Chemical:    | AGGRSSIVE INDEX (CORROSIVITY)           | Report units: | Not Reported |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 28.          |
| Chemical:    | CALCIUM                                 | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 200.         |
| Chemical:    | BICARBONATE ALKALINITY                  | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 160.         |
| Chemical:    | ALKALINITY (TOTAL) AS CaCO <sub>3</sub> | Report units: | MG/L         |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 7.84         |
| Chemical:    | PH, LABORATORY                          | Report units: | Not Reported |
| Dir:         | 0.                                      |               |              |
| Sample date: | 08-SEP-14                               | Finding:      | 1660.        |
| Chemical:    | NITRATE + NITRITE (AS N)                | Report units: | MG/L         |
| Dir:         | 0.4                                     |               |              |
| Sample date: | 15-OCT-13                               | Finding:      | 6.8          |
| Chemical:    | NITRATE (AS NO <sub>3</sub> )           | Report units: | MG/L         |
| Dir:         | 2.                                      |               |              |
| Sample date: | 10-OCT-12                               | Finding:      | 0.4          |
| Chemical:    | RADIUM 228 MDA95                        | Report units: | PCI/L        |
| Dir:         | 0.                                      |               |              |
| Sample date: | 10-OCT-12                               | Finding:      | 1.09         |
| Chemical:    | RADIUM 228 COUNTING ERROR               | Report units: | PCI/L        |
| Dir:         | 0.                                      |               |              |
| Sample date: | 10-OCT-12                               | Finding:      | 1.82         |
| Chemical:    | GROSS ALPHA COUNTING ERROR              | Report units: | PCI/L        |
| Dir:         | 0.                                      |               |              |
| Sample date: | 10-OCT-12                               | Finding:      | 0.12         |
| Chemical:    | FLUORIDE (F) (NATURAL-SOURCE)           | Report units: | MG/L         |
| Dir:         | 0.1                                     |               |              |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

|              |                  |               |      |
|--------------|------------------|---------------|------|
| Sample date: | 10-OCT-12        | Finding:      | 7.1  |
| Chemical:    | NITRATE (AS NO3) | Report units: | MG/L |
| Dir:         | 2.               |               |      |

|              |                   |               |       |
|--------------|-------------------|---------------|-------|
| Sample date: | 10-OCT-12         | Finding:      | 2.03  |
| Chemical:    | GROSS ALPHA MDA95 | Report units: | PCI/L |
| Dir:         | 0.                |               |       |

**W97**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000128314**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606700965-S-6   | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | S-6        |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606700965&amp;assigned_name=S-6&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606700965&amp;assigned_name=S-6&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606700965&amp;assigned_name=S-6">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606700965&amp;assigned_name=S-6</a>   |             |            |

**W98**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000050048**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606700965-S-3   | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | S-3        |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606700965&amp;assigned_name=S-3&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606700965&amp;assigned_name=S-3&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606700965&amp;assigned_name=S-3">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606700965&amp;assigned_name=S-3</a>   |             |            |

**Z99**  
**SW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000189540**

|                        |                                      |                             |              |
|------------------------|--------------------------------------|-----------------------------|--------------|
| Organization ID:       | USGS-CA                              |                             |              |
| Organization Name:     | USGS California Water Science Center |                             |              |
| Monitor Location:      | 009N005E20P002M                      | Type:                       | Well         |
| Description:           | Not Reported                         | HUC:                        | 18020111     |
| 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:     | 19650101                             | Well Depth:                 | 384          |
| Well Depth Units:      | ft                                   | Well Hole Depth:            | 390          |
| Well Hole Depth Units: | ft                                   |                             |              |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**Z100**  
**SW**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000041217**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606700439-COS#142   | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | COS#142    |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606700439&amp;assigned_name=COS#142&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606700439&amp;assigned_name=COS#142&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606700439&amp;assigned_name=COS#142">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606700439&amp;assigned_name=COS#142</a>   |             |            |

**Z101**  
**SW**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CADDW0000004432**

|                           |   |                    |              |
|---------------------------|---|--------------------|--------------|
| Well ID:                  | 3410020-044   | Well Type:         | MUNICIPAL    |
| Source:                   | Department of Health Services   |                    |              |
| Other Name:               | WELL 142  | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-044&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&amp;samp_date=&amp;global_id=&amp;assigned_name=3410020-044&amp;store_num=</a> |                    |              |
| GeoTracker Data:          | Not Reported  |                    |              |

**102**  
**East**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CADWR9000039873**

|               |               |                        |                |
|---------------|---------------|------------------------|----------------|
| State Well #: | 09N05E16D001M | Station ID:            | 52230          |
| Well Name:    | SAC-129       | Basin Name:            | North American |
| Well Use:     | Other         | Well Type:             | Single Well    |
| Well Depth:   | 401           | Well Completion Rpt #: | 46561          |

**W103**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000062832**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606700965-S-7   | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | S-7        |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606700965&amp;assigned_name=S-7&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606700965&amp;assigned_name=S-7&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606700965&amp;assigned_name=S-7">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606700965&amp;assigned_name=S-7</a>   |             |            |

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**W104**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000102280**

Well ID: T0606700965-S-4      Well Type: MONITORING  
 Source: EDF      Other Name: S-4  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0606700965&assigned\\_name=S-4&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606700965&assigned_name=S-4&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0606700965&assigned\\_name=S-4](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606700965&assigned_name=S-4)

**W105**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000014859**

Well ID: T0606700965-S-8      Well Type: MONITORING  
 Source: EDF      Other Name: S-8  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0606700965&assigned\\_name=S-8&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606700965&assigned_name=S-8&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0606700965&assigned\\_name=S-8](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606700965&assigned_name=S-8)

**W106**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000133632**

Well ID: T0606700965-S-1      Well Type: MONITORING  
 Source: EDF      Other Name: S-1  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0606700965&assigned\\_name=S-1&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606700965&assigned_name=S-1&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0606700965&assigned\\_name=S-1](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606700965&assigned_name=S-1)

**W107**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000106191**

Well ID: T0606700965-S-2      Well Type: MONITORING  
 Source: EDF      Other Name: S-2  
 GAMA PFAS Testing: Not Reported  
 Groundwater Quality Data: [https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp\\_date=&global\\_id=T0606700965&assigned\\_name=S-2&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0606700965&assigned_name=S-2&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0606700965&assigned\\_name=S-2](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0606700965&assigned_name=S-2)

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**W108**  
**South**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      CAEDF0000122429**

|                           |   |             |            |
|---------------------------|---|-------------|------------|
| Well ID:                  | T0606700965-S-5   | Well Type:  | MONITORING |
| Source:                   | EDF   | Other Name: | S-5        |
| GAMA PFAS Testing:        | Not Reported  |             |            |
| Groundwater Quality Data: | <a href="https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606700965&amp;assigned_name=S-5&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0606700965&amp;assigned_name=S-5&amp;store_num=</a> |             |            |
| GeoTracker Data:          | <a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606700965&amp;assigned_name=S-5">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0606700965&amp;assigned_name=S-5</a>   |             |            |

**Y109**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000189523**

|                        |                                      |                             |              |
|------------------------|--------------------------------------|-----------------------------|--------------|
| Organization ID:       | USGS-CA                              |                             |              |
| Organization Name:     | USGS California Water Science Center |                             |              |
| Monitor Location:      | 009N005E28C001M                      | Type:                       | Well         |
| Description:           | Not Reported                         | HUC:                        | 18020111     |
| 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:     | 19400101                             | Well Depth:                 | 125          |
| Well Depth Units:      | ft                                   | Well Hole Depth:            | 136          |
| Well Hole Depth Units: | ft                                   |                             |              |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: CA Radon

### Radon Test Results

| Zipcode | Num Tests | > 4 pCi/L |
|---------|-----------|-----------|
| 95815   | 4         | 0         |

Federal EPA Radon Zone for SACRAMENTO County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.  
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.  
 : Zone 3 indoor average level < 2 pCi/L.

---

### Federal Area Radon Information for SACRAMENTO COUNTY, CA

Number of sites tested: 52

| Area                    | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|-------------------------|------------------|------------|--------------|-------------|
| Living Area - 1st Floor | 0.665 pCi/L      | 100%       | 0%           | 0%          |
| Living Area - 2nd Floor | 0.200 pCi/L      | 100%       | 0%           | 0%          |
| Basement                | 8.350 pCi/L      | 50%        | 50%          | 0%          |

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Wetland Inventory

Source: Department of Fish and Wildlife

Telephone: 916-445-0411

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<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.

## OTHER STATE DATABASE INFORMATION

### Groundwater Ambient Monitoring & Assessment Program

State Water Resources Control Board

Telephone: 916-341-5577

The GAMA Program is California's comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Health Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

### Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

### California Drinking Water Quality Database

Source: Department of Public Health

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

### California Oil and Gas Well Locations

Source: Dept of Conservation, Geologic Energy Management Division

Telephone: 916-323-1779

Oil and Gas well locations in the state.

### California Earthquake Fault Lines

Source: California Division of Mines and Geology

The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

## RADON

### State Database: CA Radon

Source: Department of Public Health

Telephone: 916-210-8558

Radon Database for California

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

### STREET AND ADDRESS INFORMATION

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Corporate Headquarters  
1322 E. Shaw Avenue, Suite 400 Fresno, CA, 93710  
www.soarhere.com • 559.547.8884

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## Appendix D: Historical Research Documentation

Sarita Prasad SAC

3200 Rio Linda Boulevard

Sacramento, CA 95815

Inquiry Number: 7287764.3

March 23, 2023

## 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

03/23/23

**Site Name:**

Sarita Prasad SAC  
3200 Rio Linda Boulevard  
Sacramento, CA 95815  
EDR Inquiry # 7287764.3

**Client Name:**

Soar Environmental Consulting, Inc.  
1322 East Shaw Avenue Suite 400  
Fresno, CA 93710  
Contact: Marcus Patton



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Soar Environmental Consulting, Inc. 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 #** 52DF-4B73-B03A  
**PO #** NA  
**Project** Sarita Prasad Phase 1  
**Maps Provided:**  
1965  
1963  
1952  
1949



Sanborn® Library search results

Certification #: 52DF-4B73-B03A

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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## Sanborn Sheet Key

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### 1965 Source Sheets



Volume 1, Sheet 18  
1965

### 1963 Source Sheets



Volume 1, Sheet 18  
1963

### 1952 Source Sheets

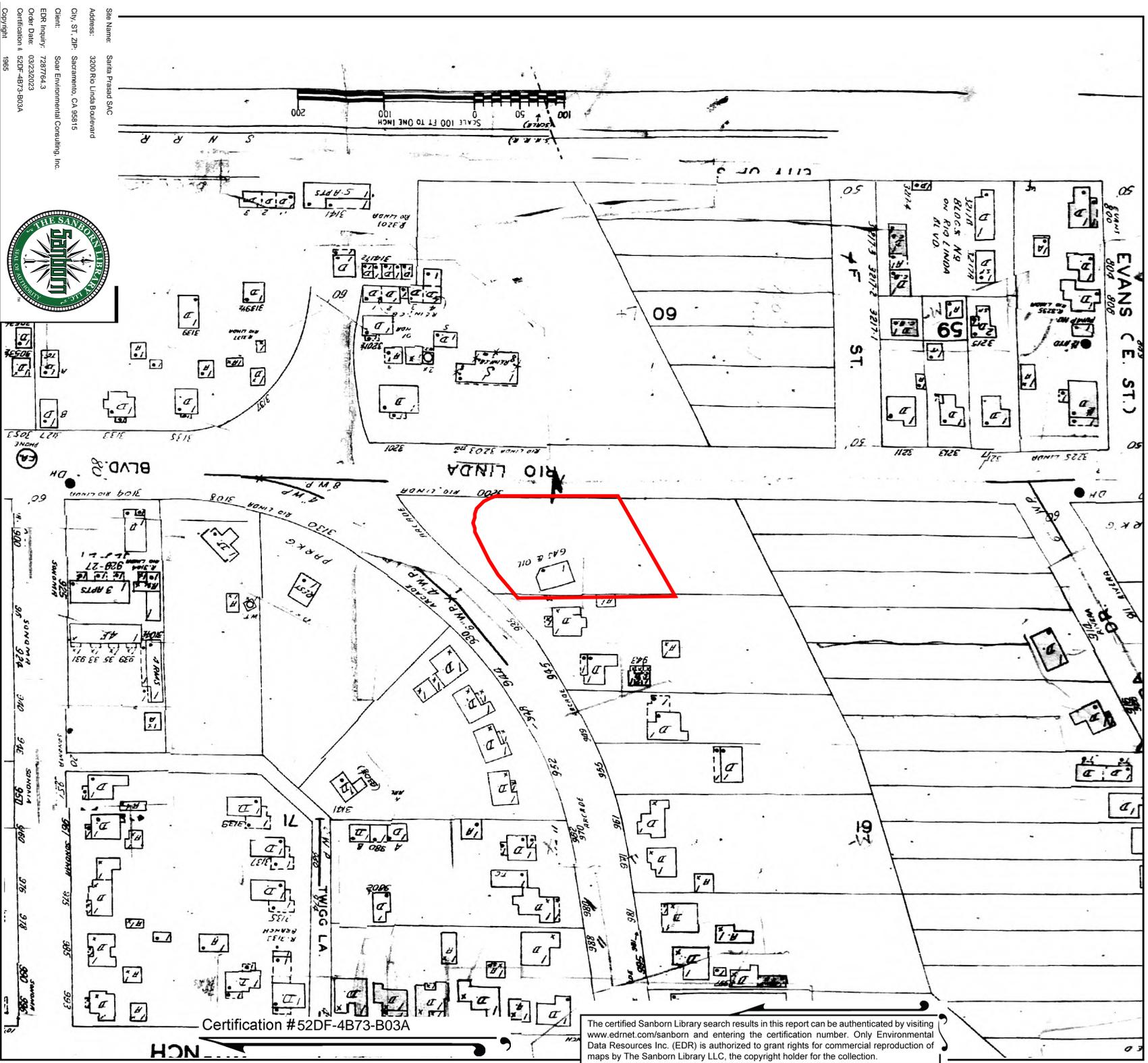


Volume 1, Sheet 18  
1952

### 1949 Source Sheets



Volume 1, Sheet 18  
1949



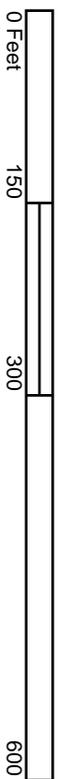
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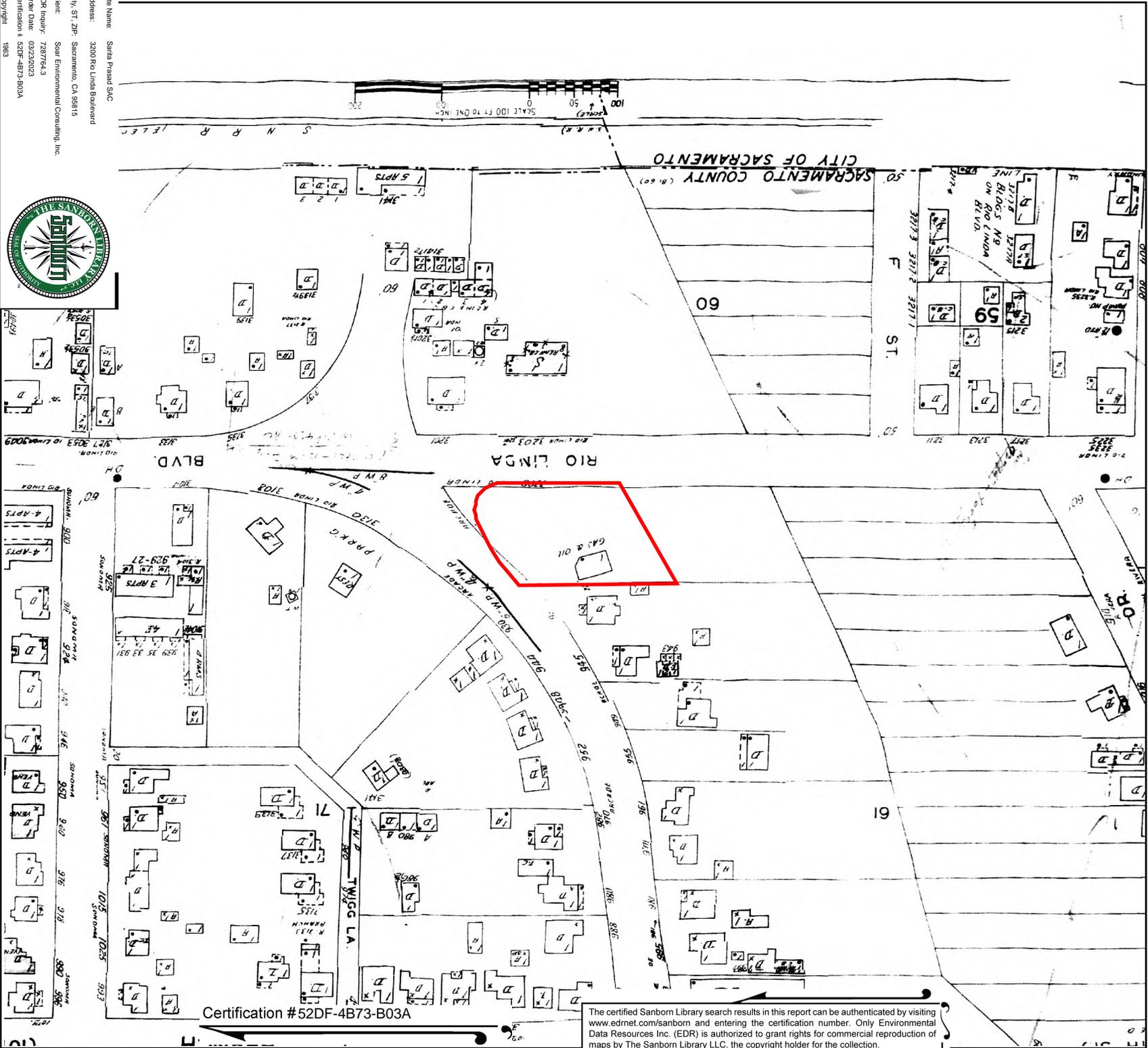
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 Address: 3200 Rio Linda Boulevard  
 City, ST, ZIP: Sacramento, CA 95815  
 Client: Seat Environmental Consulting, Inc.  
 EIR Inquiry: 7287764.3  
 Order Date: 02/22/2023  
 Certification #: 52DF-4B73-B03A  
 Copyright: 1965



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 Outlined areas indicate map sheets within the collection.



Volume 1, Sheet 18



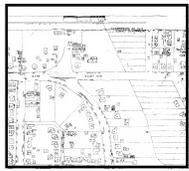
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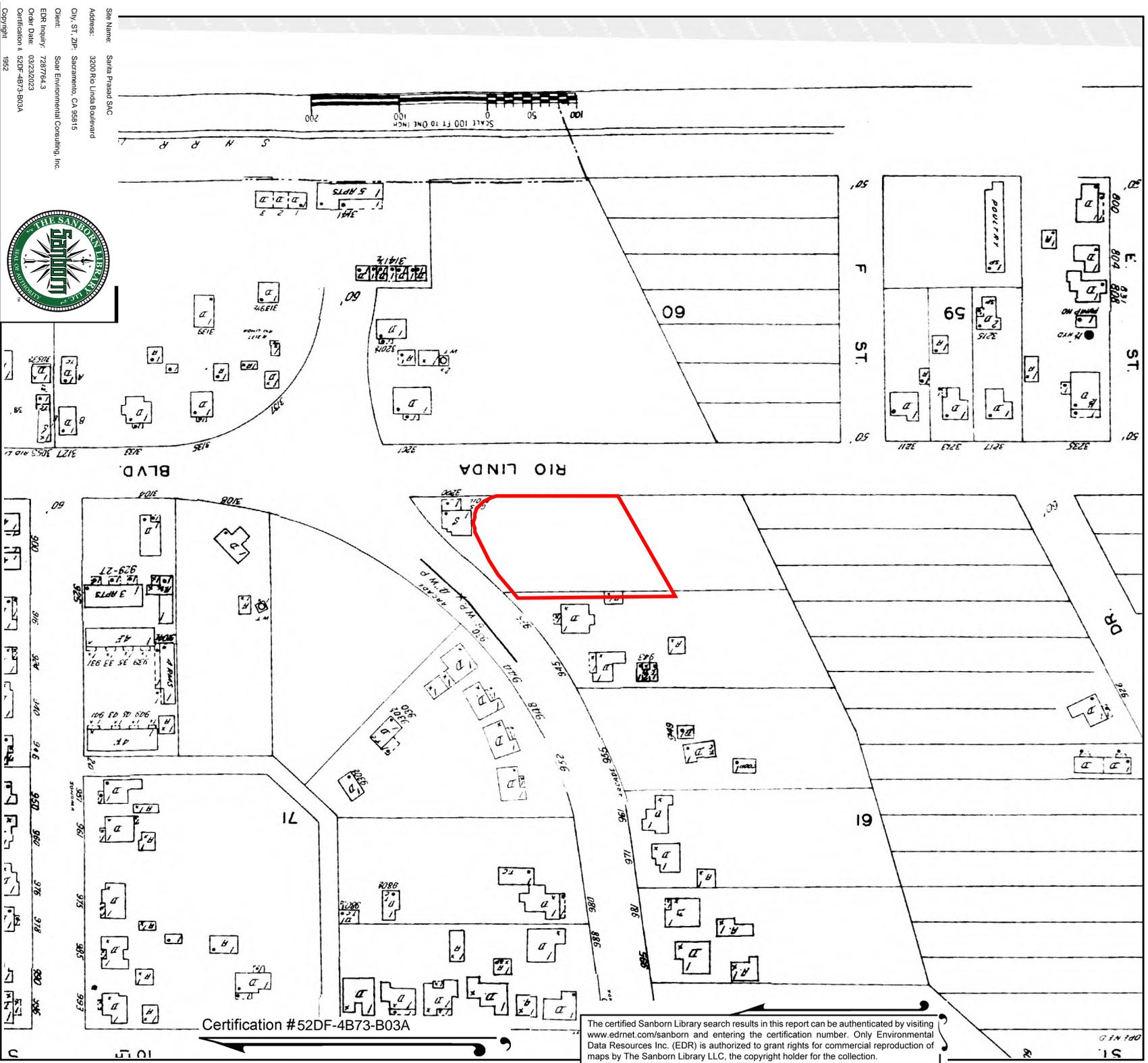
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Address: 3200 Rio Linda Boulevard  
City, ST, ZIP: Sacramento, CA 95815  
Client: Seaf Environmental Consulting, Inc.  
EDR Inquiry: 7287764.3  
Order Date: 02/22/2023  
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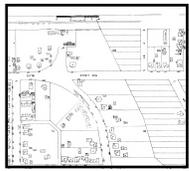
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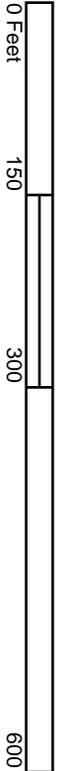
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Address: 3200 Rio Linda Boulevard  
City, ST, ZIP: Sacramento, CA 95815  
Client: Seab Environmental Consulting, Inc.  
EDR Inquiry: 7287764.3  
Order Date: 02/22/2023  
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Copyright: 1952



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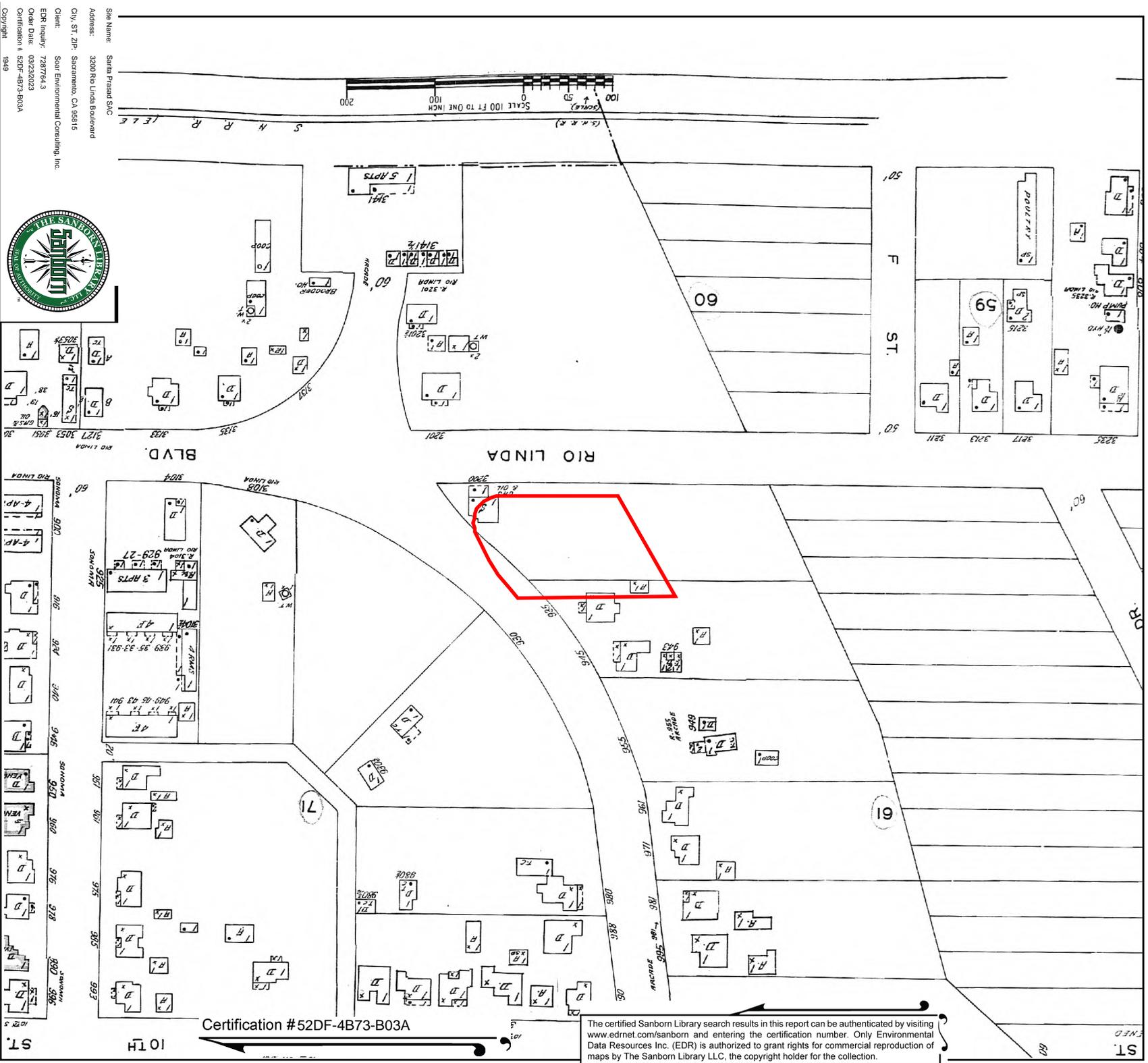


Volume 1, Sheet 18



Certification # 52DF-4B73-B03A

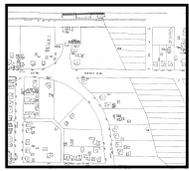
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 Client: Seal Environmental Consulting, Inc.  
 EIR Inquiry: 7287764.3  
 Order Date: 02/22/2023  
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Volume 1, Sheet 18

Certification #52DF-4B73-B03A

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Sarita Prasad SAC

3200 Rio Linda Boulevard

Sacramento, CA 95815

Inquiry Number: 7287764.4

March 23, 2023

# 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

03/23/23

**Site Name:**

Sarita Prasad SAC  
3200 Rio Linda Boulevard  
Sacramento, CA 95815  
EDR Inquiry # 7287764.4

**Client Name:**

Soar Environmental Consulting, Inc.  
1322 East Shaw Avenue Suite 400  
Fresno, CA 93710  
Contact: Marcus Patton



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Soar Environmental Consulting, Inc. 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. EDR's 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>     | 38.625387 38° 37' 31" North    |
| <b>Project:</b> | Sarita Prasad Phase 1 | <b>Longitude:</b>    | -121.445858 -121° 26' 45" West |
|                 |                       | <b>UTM Zone:</b>     | Zone 10 North                  |
|                 |                       | <b>UTM X Meters:</b> | 635286.32                      |
|                 |                       | <b>UTM Y Meters:</b> | 4276352.21                     |
|                 |                       | <b>Elevation:</b>    | 30.00' above sea level         |

**Maps Provided:**

|      |            |
|------|------------|
| 2018 | 1951, 1954 |
| 2015 | 1949, 1950 |
| 2012 | 1911       |
| 1992 | 1902       |
| 1980 | 1893       |
| 1975 | 1892       |
| 1967 | 1891       |
| 1954 |            |

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## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 2018 Source Sheets



Rio Linda  
2018  
7.5-minute, 24000

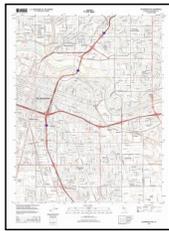


Sacramento East  
2018  
7.5-minute, 24000

### 2015 Source Sheets



Rio Linda  
2015  
7.5-minute, 24000



Sacramento East  
2015  
7.5-minute, 24000

### 2012 Source Sheets



Rio Linda  
2012  
7.5-minute, 24000



Sacramento East  
2012  
7.5-minute, 24000

### 1992 Source Sheets



Rio Linda  
1992  
7.5-minute, 24000  
Aerial Photo Revised 1992



Sacramento East  
1992  
7.5-minute, 24000  
Aerial Photo Revised 1992

## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1980 Source Sheets



Sacramento East  
1980  
7.5-minute, 24000  
Aerial Photo Revised 1978



Rio Linda  
1980  
7.5-minute, 24000  
Aerial Photo Revised 1978

### 1975 Source Sheets



Rio Linda  
1975  
7.5-minute, 24000  
Aerial Photo Revised 1975



Sacramento East  
1975  
7.5-minute, 24000  
Aerial Photo Revised 1975

### 1967 Source Sheets



Sacramento East  
1967  
7.5-minute, 24000  
Aerial Photo Revised 1966



Rio Linda  
1967  
7.5-minute, 24000  
Aerial Photo Revised 1966

### 1954 Source Sheets



Fair Oaks  
1954  
15-minute, 62500

## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1951, 1954 Source Sheets



Rio Linda  
1951  
7.5-minute, 24000  
Aerial Photo Revised 1947



Sacramento East  
1954  
7.5-minute, 24000  
Aerial Photo Revised 1947

### 1949, 1950 Source Sheets



Sacramento East  
1949  
7.5-minute, 24000  
Aerial Photo Revised 1947



Rio Linda  
1950  
7.5-minute, 24000  
Aerial Photo Revised 1947

### 1911 Source Sheets



Arcade  
1911  
7.5-minute, 31680



Brighton  
1911  
7.5-minute, 31680

### 1902 Source Sheets



Fairoaks  
1902  
15-minute, 62500

## ***Topo Sheet Key***

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **1893 Source Sheets**



Sacramento  
1893  
30-minute, 125000

### **1892 Source Sheets**

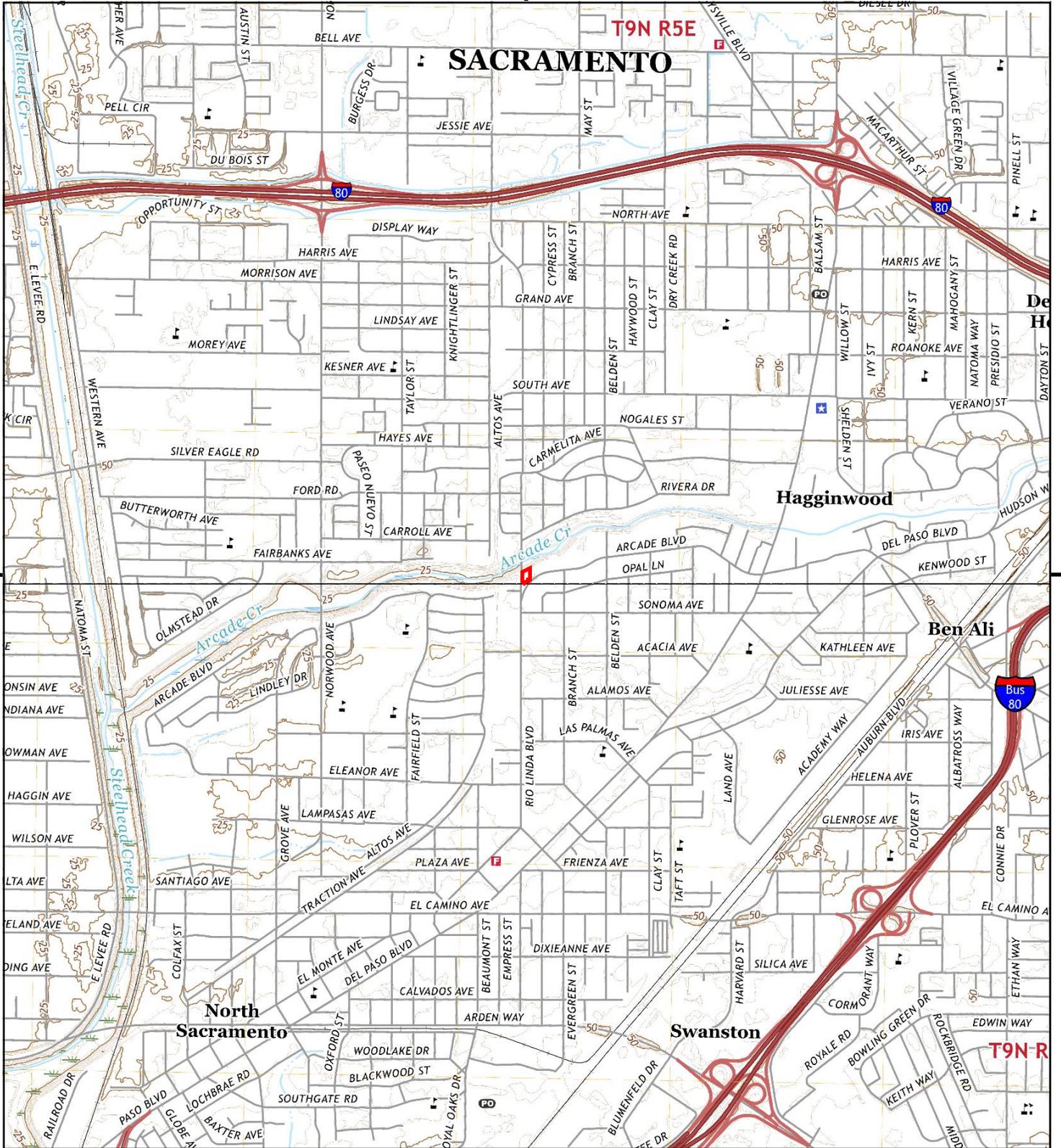


Sacramento  
1892  
30-minute, 125000

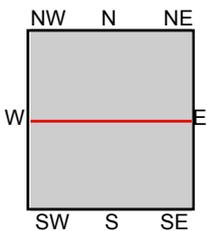
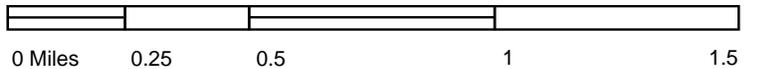
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Sacramento  
1891  
30-minute, 125000



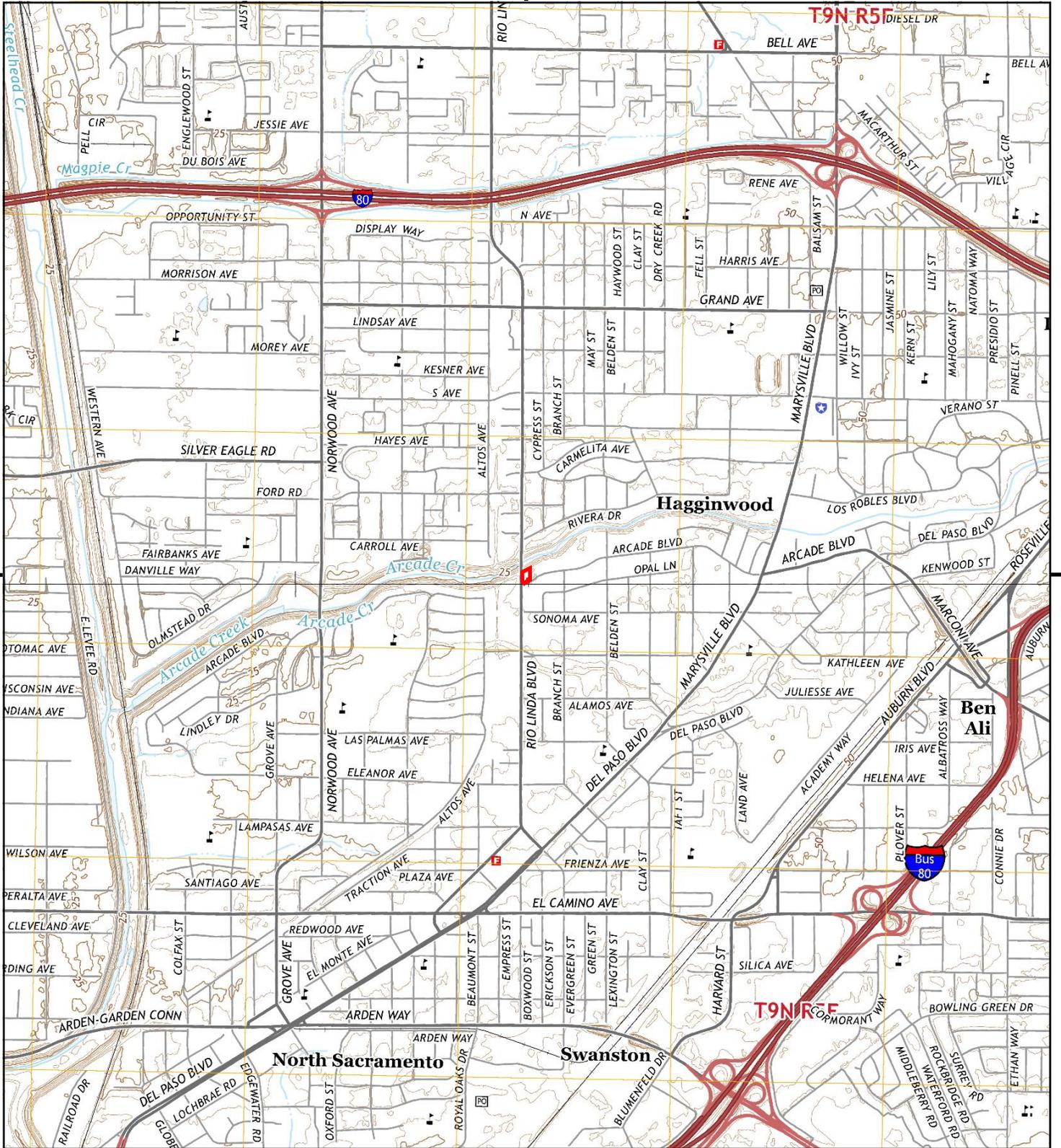
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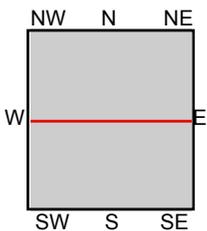
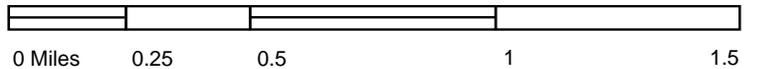
TP, Rio Linda, 2018, 7.5-minute  
 S, Sacramento East, 2018, 7.5-minute

**SITE NAME:** Sarita Prasad SAC  
**ADDRESS:** 3200 Rio Linda Boulevard  
 Sacramento, CA 95815  
**CLIENT:** Soar Environmental Consulting, Inc.





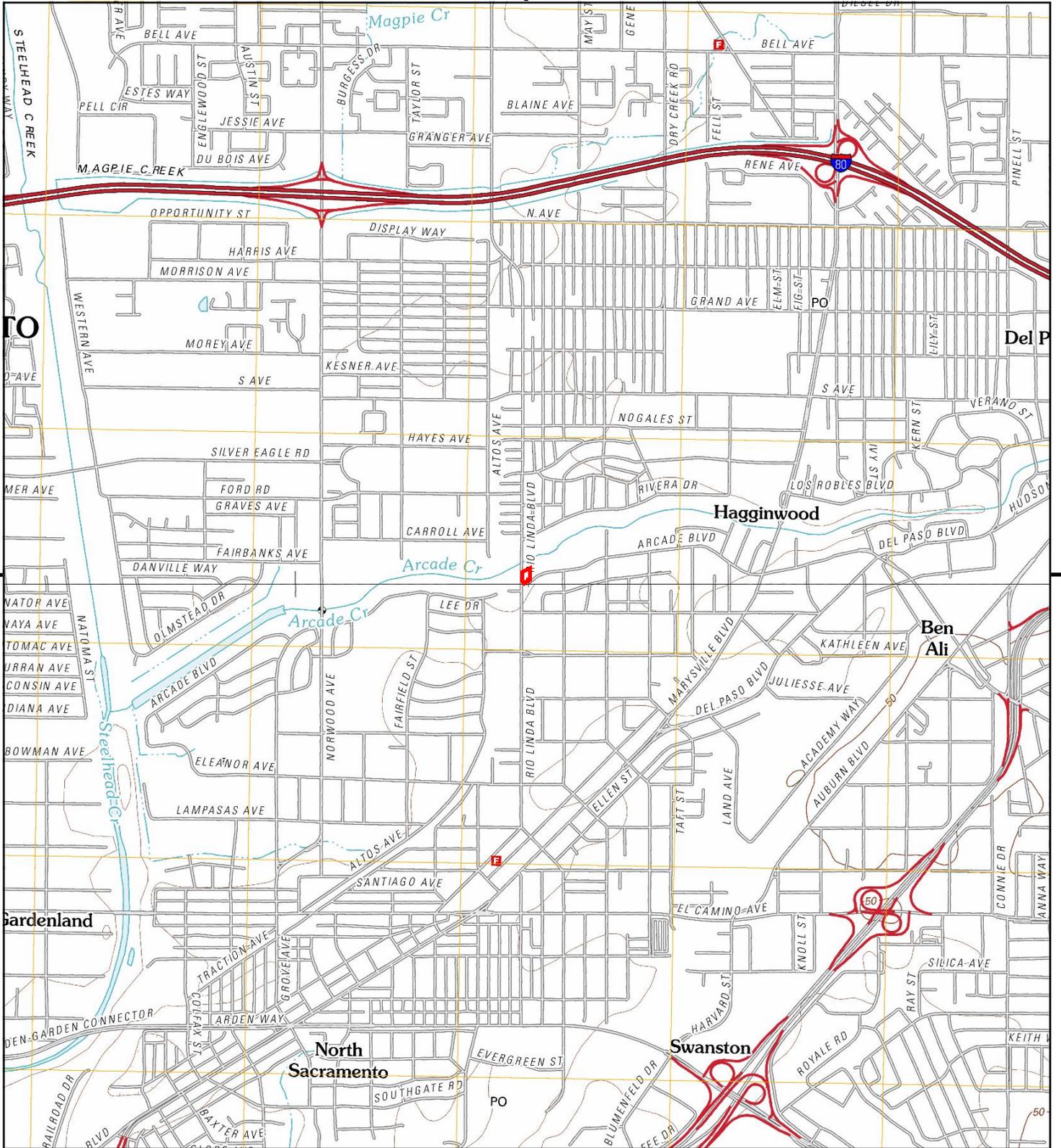
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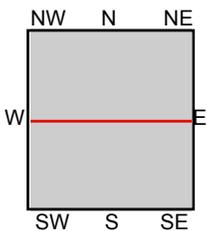
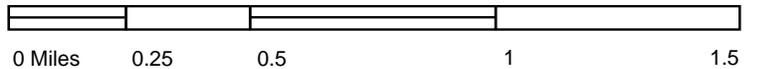
TP, Rio Linda, 2015, 7.5-minute  
S, Sacramento East, 2015, 7.5-minute

**SITE NAME:** Sarita Prasad SAC  
**ADDRESS:** 3200 Rio Linda Boulevard  
Sacramento, CA 95815  
**CLIENT:** Soar Environmental Consulting, Inc.





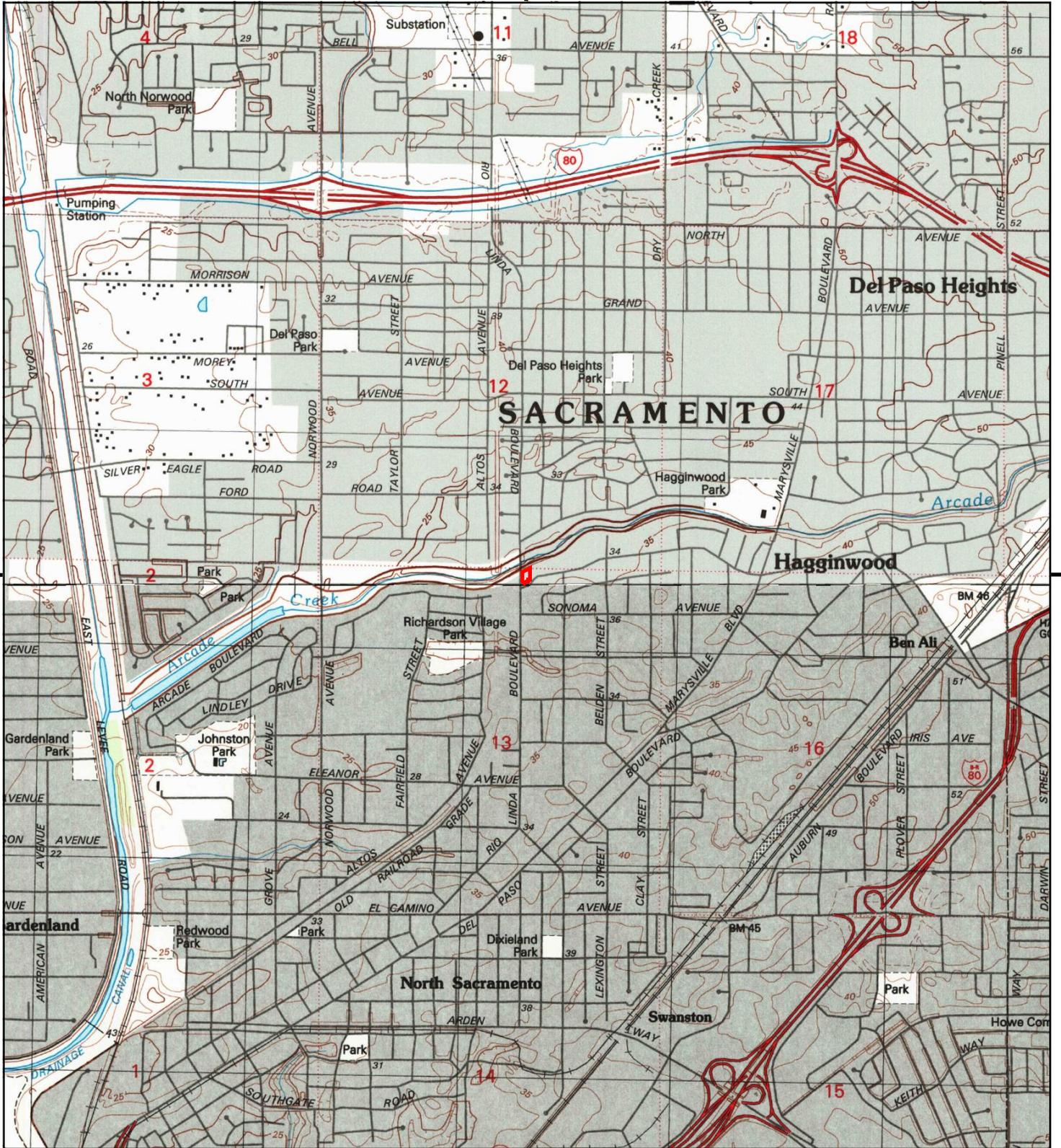
This report includes information from the following map sheet(s).



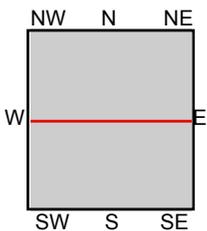
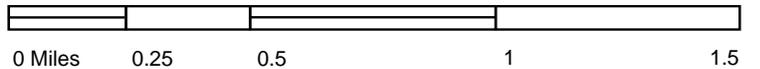
TP, Rio Linda, 2012, 7.5-minute  
 S, Sacramento East, 2012, 7.5-minute

**SITE NAME:** Sarita Prasad SAC  
**ADDRESS:** 3200 Rio Linda Boulevard  
 Sacramento, CA 95815  
**CLIENT:** Soar Environmental Consulting, Inc.





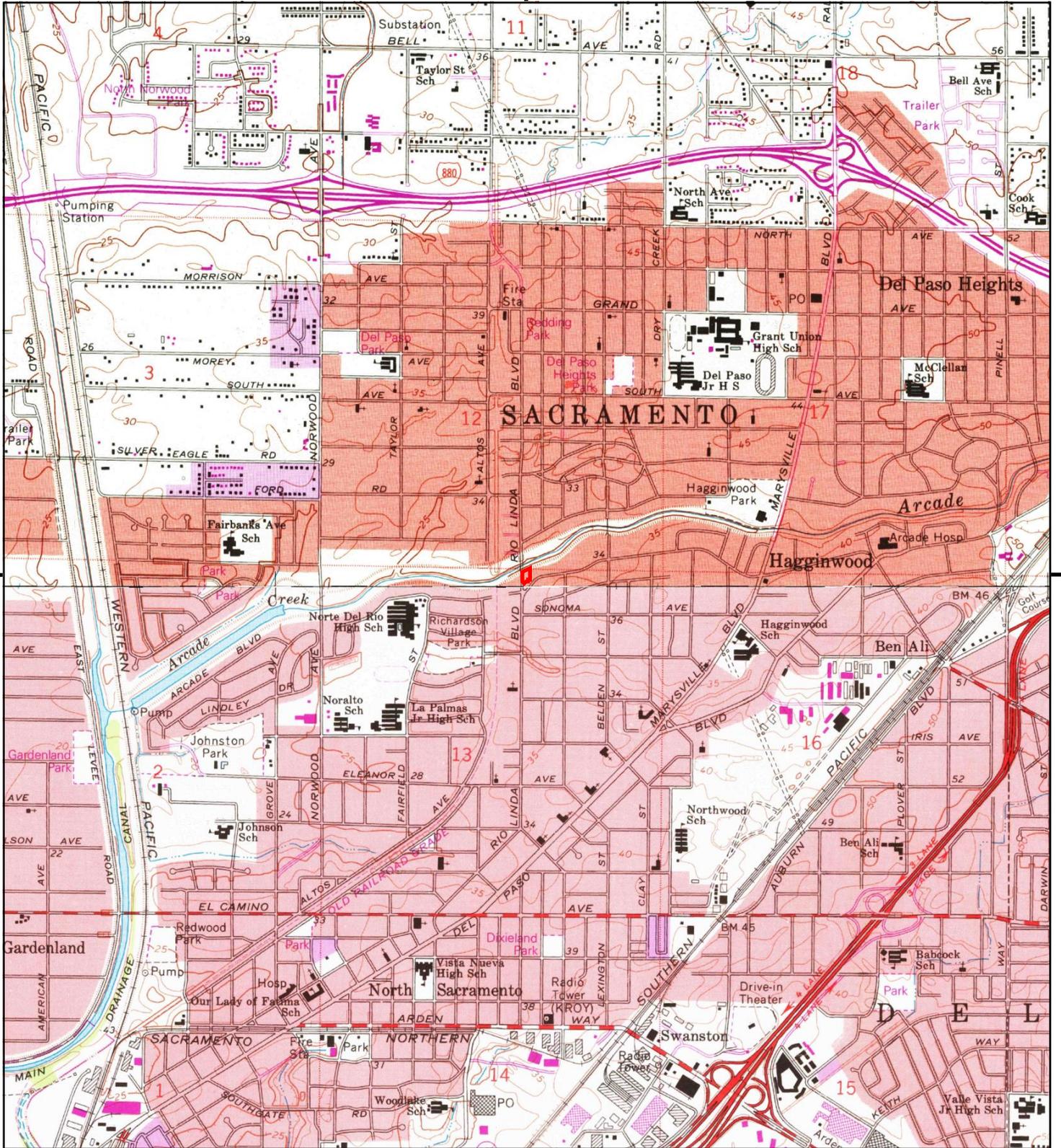
This report includes information from the following map sheet(s).



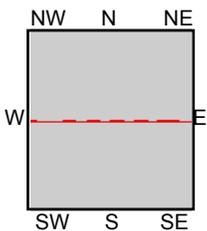
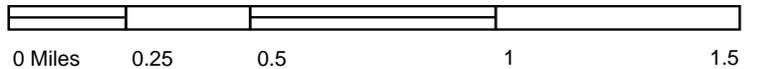
TP, Rio Linda, 1992, 7.5-minute  
S, Sacramento East, 1992, 7.5-minute

SITE NAME: Sarita Prasad SAC  
ADDRESS: 3200 Rio Linda Boulevard  
Sacramento, CA 95815  
CLIENT: Soar Environmental Consulting, Inc.





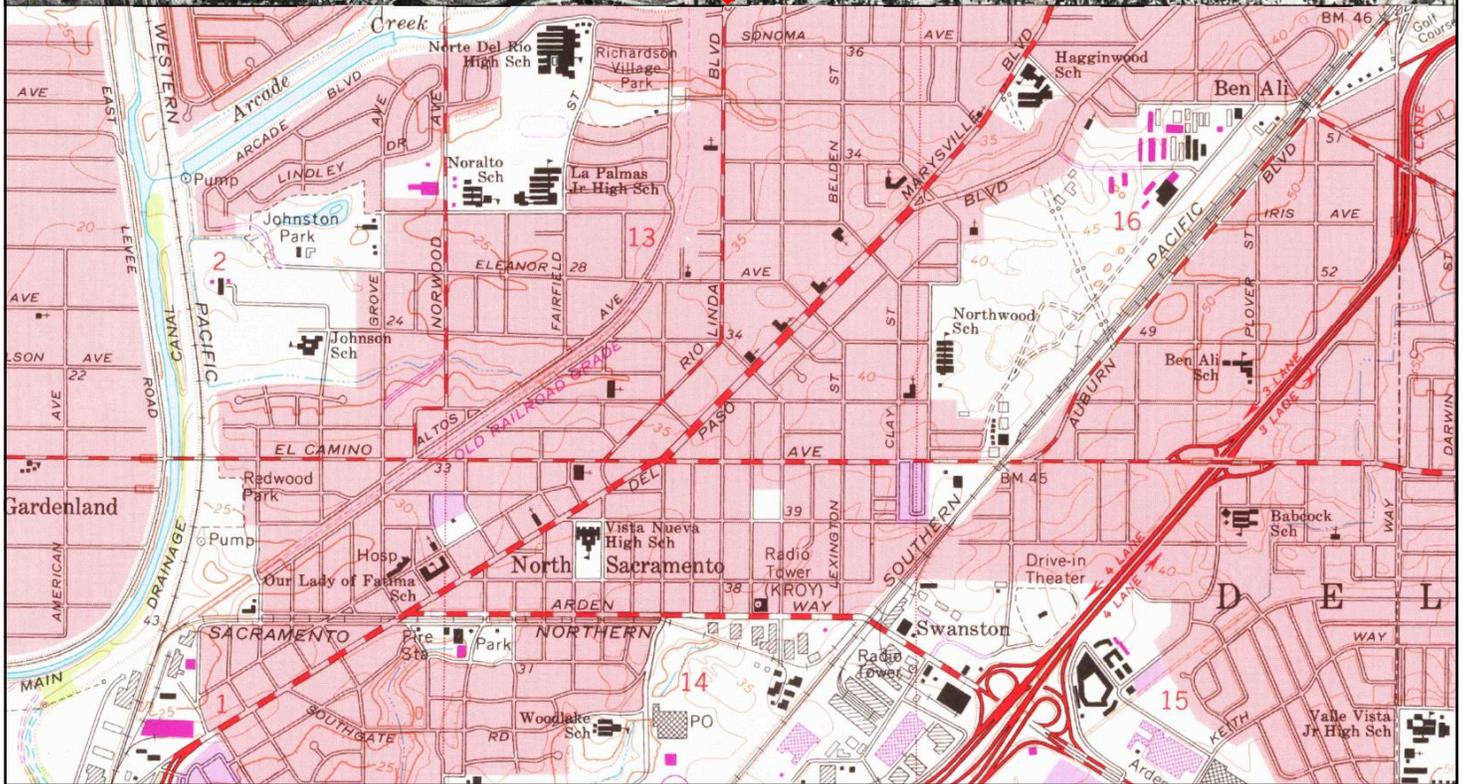
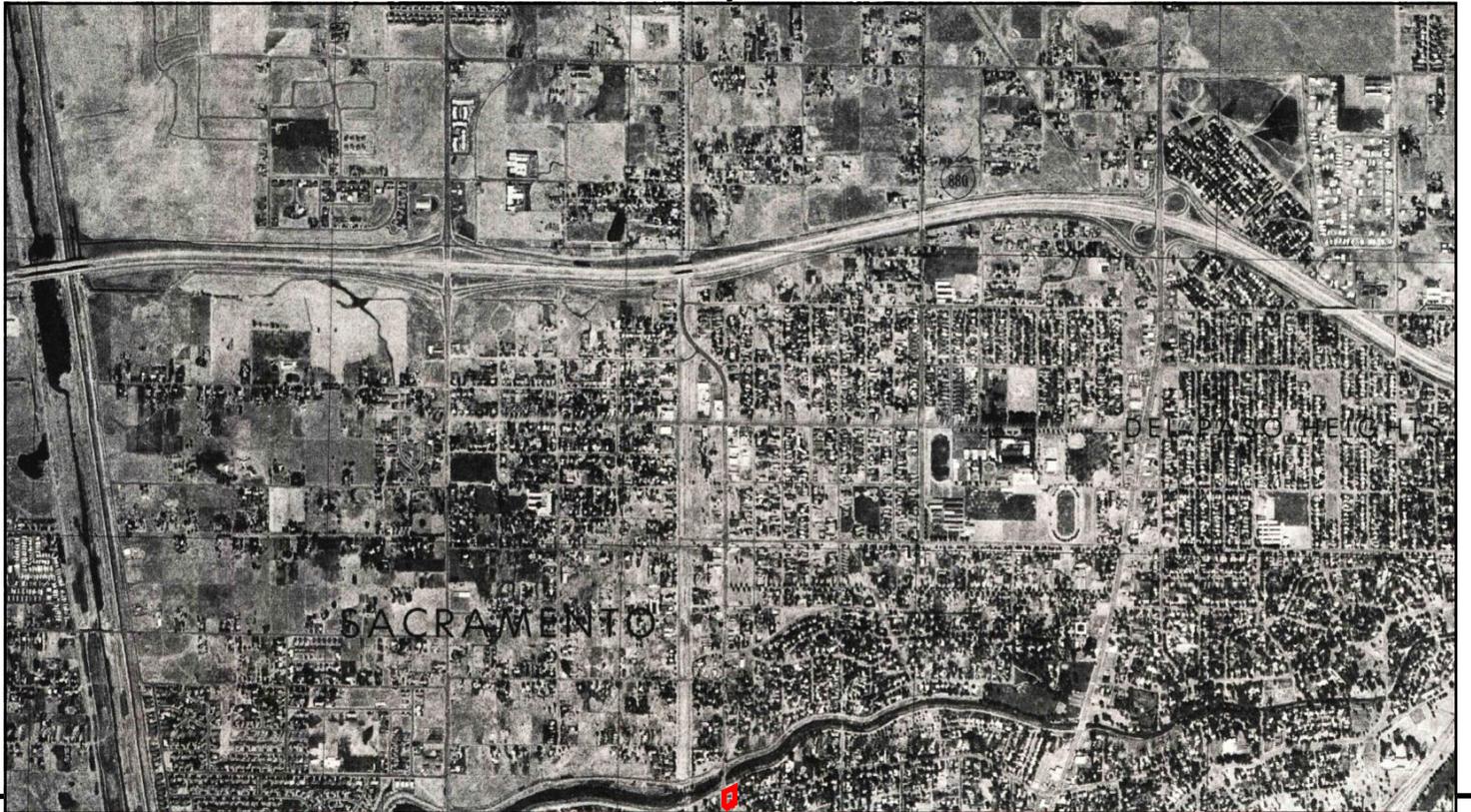
This report includes information from the following map sheet(s).



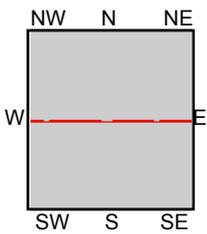
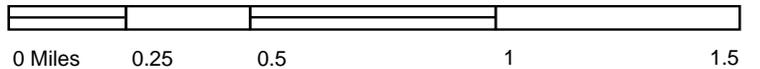
TP, Rio Linda, 1980, 7.5-minute  
S, Sacramento East, 1980, 7.5-minute

**SITE NAME:** Sarita Prasad SAC  
**ADDRESS:** 3200 Rio Linda Boulevard  
Sacramento, CA 95815  
**CLIENT:** Soar Environmental Consulting, Inc.





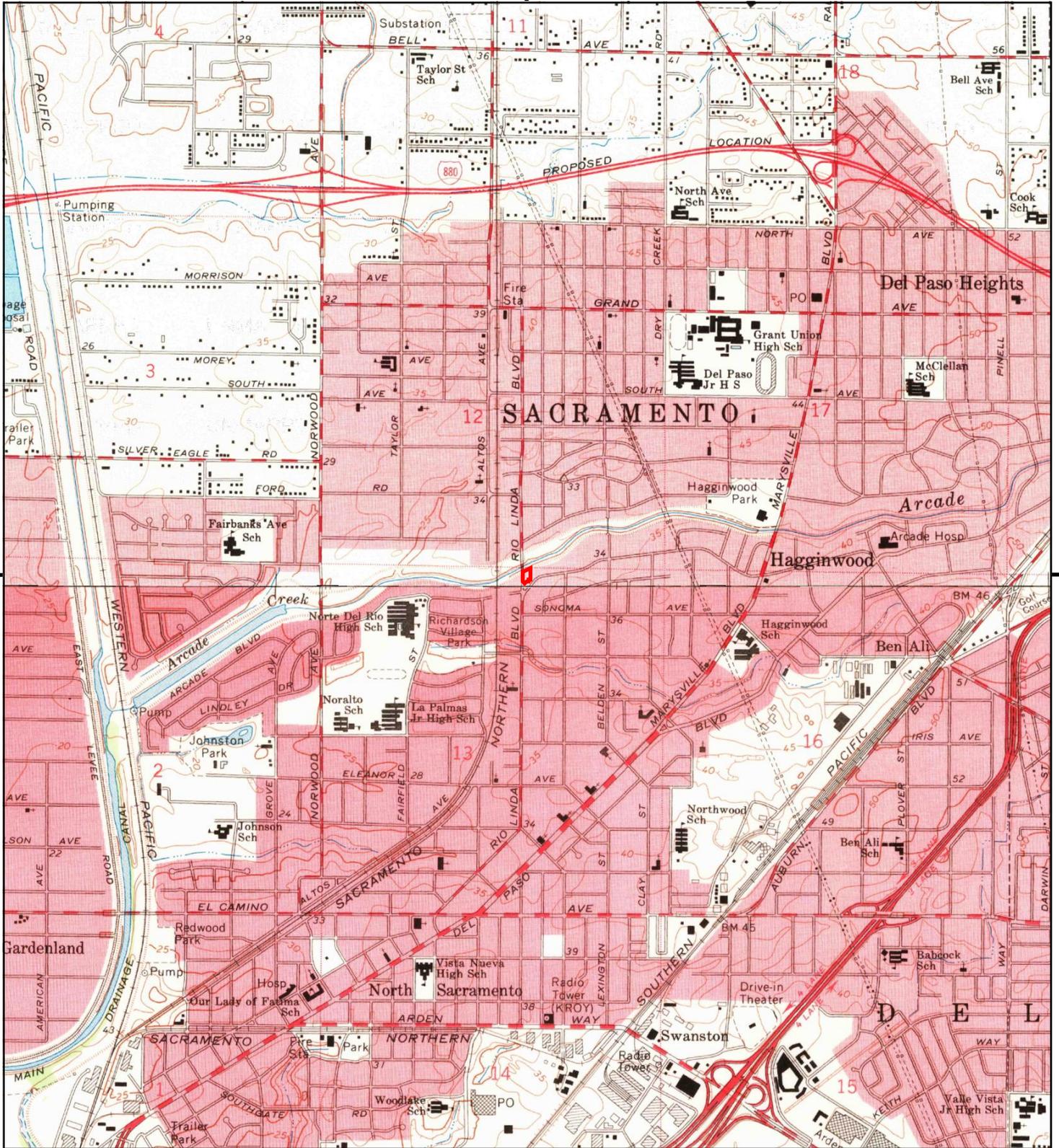
This report includes information from the following map sheet(s).



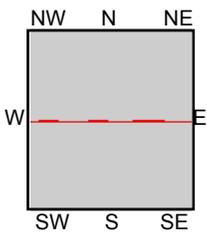
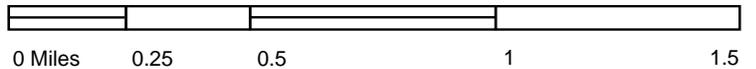
TP, Rio Linda, 1975, 7.5-minute  
S, Sacramento East, 1975, 7.5-minute

**SITE NAME:** Sarita Prasad SAC  
**ADDRESS:** 3200 Rio Linda Boulevard  
Sacramento, CA 95815  
**CLIENT:** Soar Environmental Consulting, Inc.





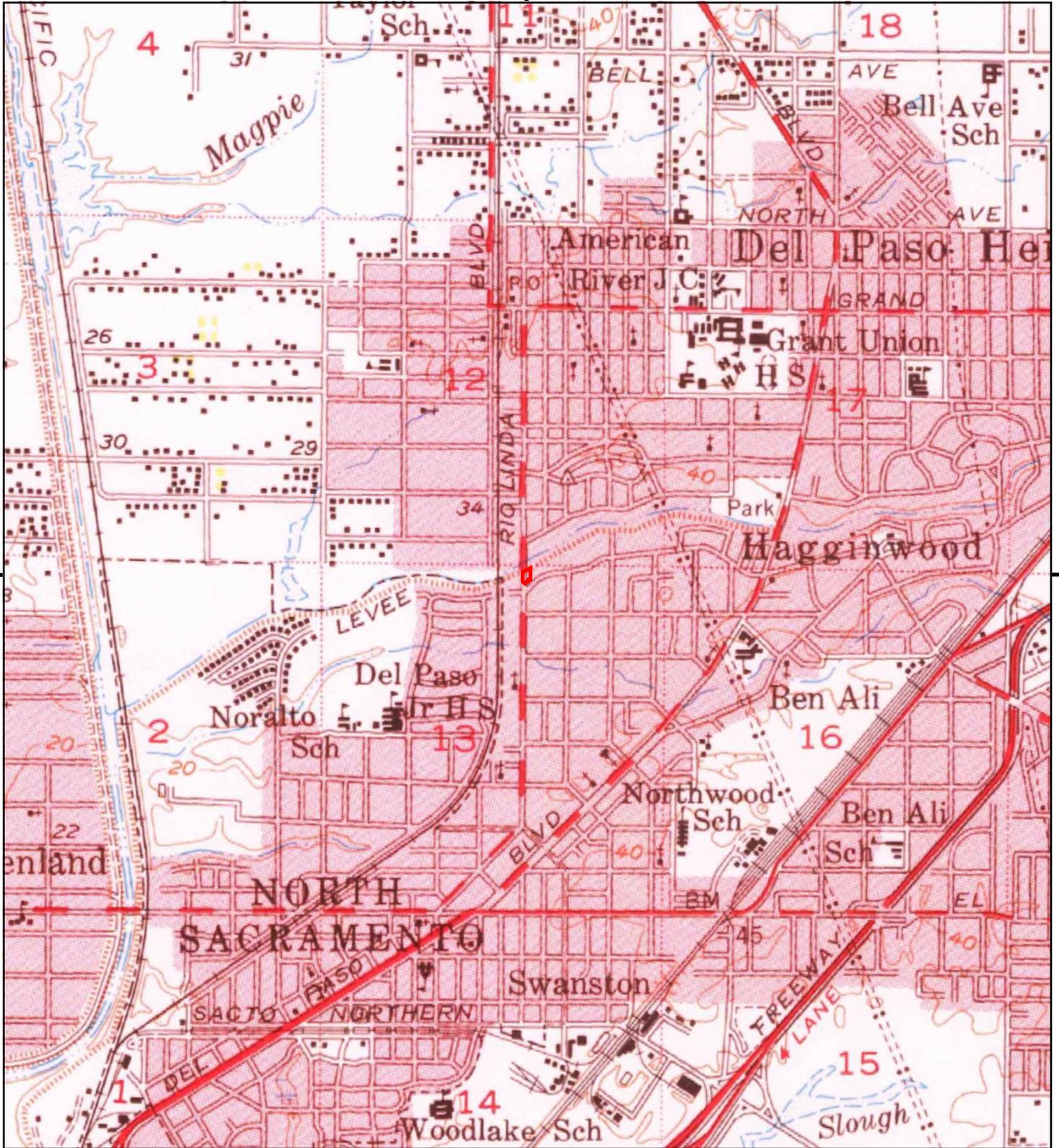
This report includes information from the following map sheet(s).



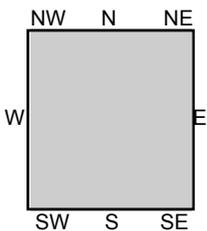
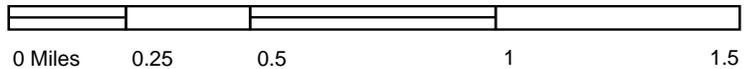
TP, Rio Linda, 1967, 7.5-minute  
S, Sacramento East, 1967, 7.5-minute

**SITE NAME:** Sarita Prasad SAC  
**ADDRESS:** 3200 Rio Linda Boulevard  
Sacramento, CA 95815  
**CLIENT:** Soar Environmental Consulting, Inc.





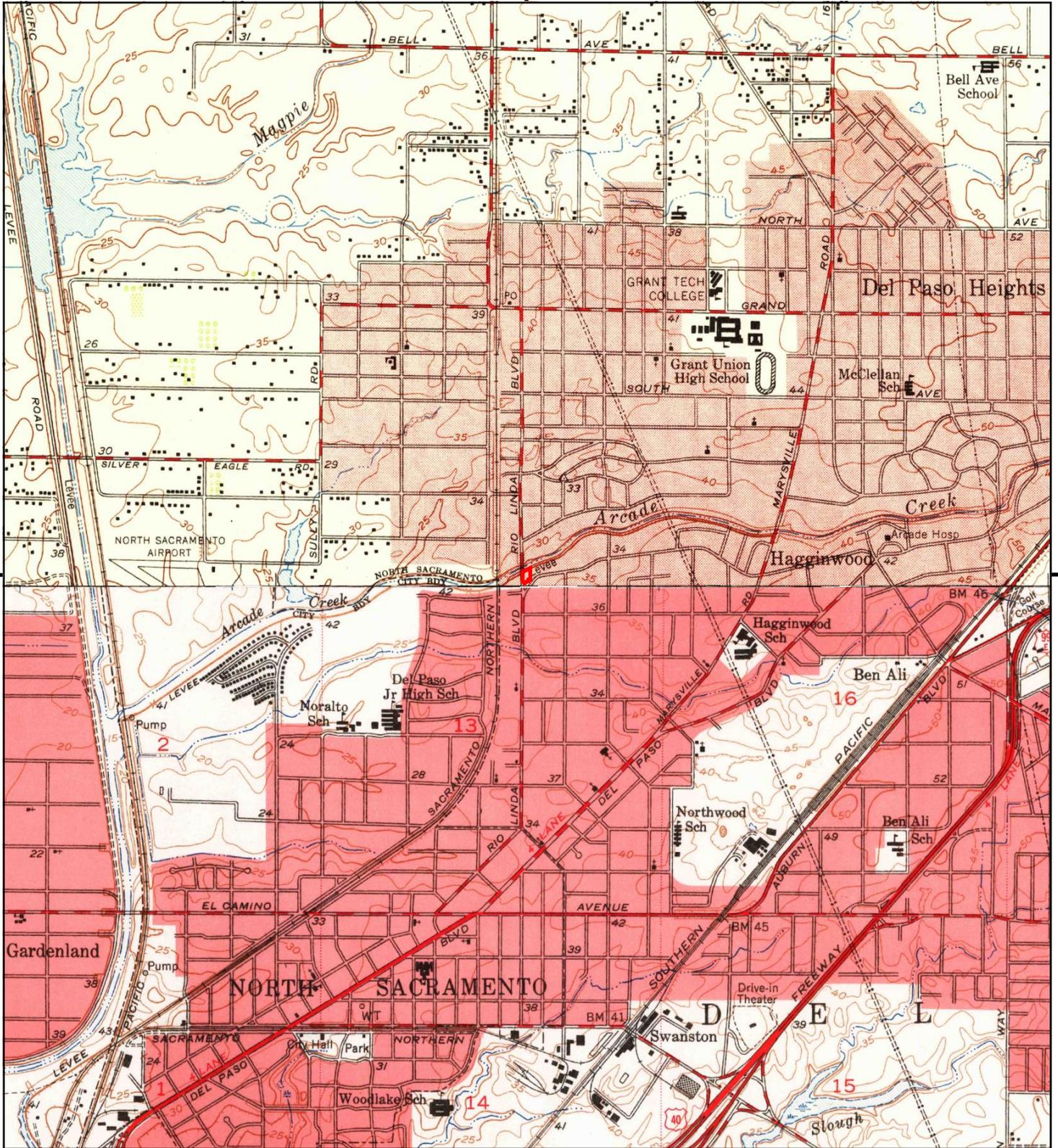
This report includes information from the following map sheet(s).



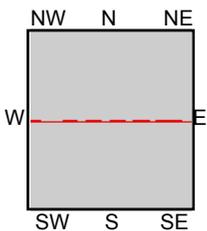
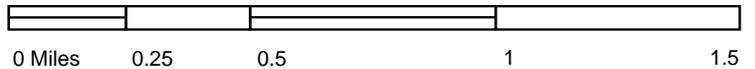
TP, Fair Oaks, 1954, 15-minute

SITE NAME: Sarita Prasad SAC  
 ADDRESS: 3200 Rio Linda Boulevard  
 Sacramento, CA 95815  
 CLIENT: Soar Environmental Consulting, Inc.





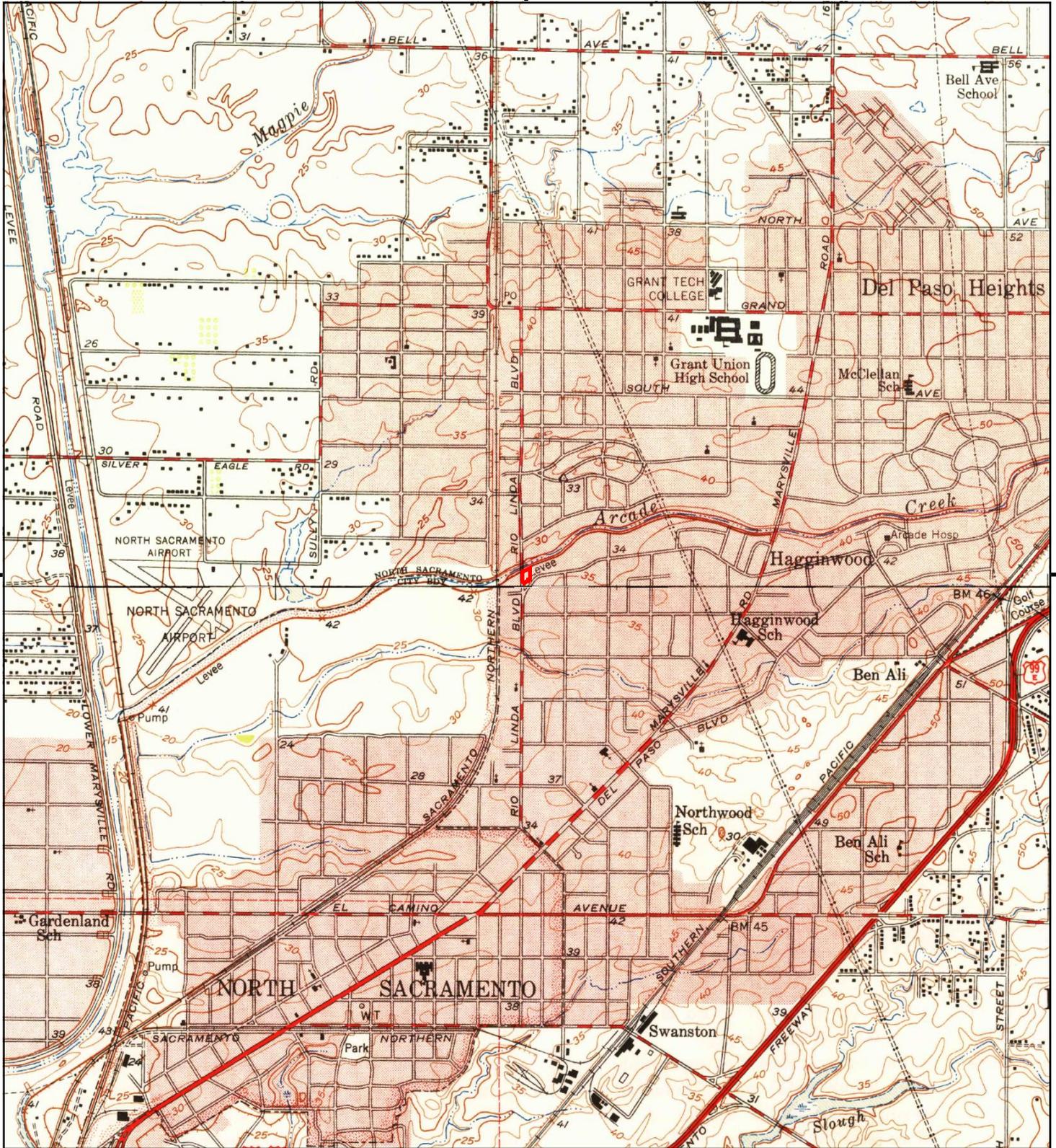
This report includes information from the following map sheet(s).



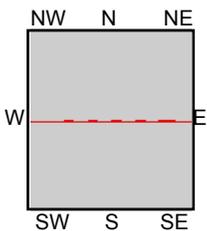
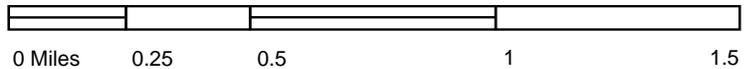
TP, Rio Linda, 1951, 7.5-minute  
S, Sacramento East, 1954, 7.5-minute

**SITE NAME:** Sarita Prasad SAC  
**ADDRESS:** 3200 Rio Linda Boulevard  
Sacramento, CA 95815  
**CLIENT:** Soar Environmental Consulting, Inc.





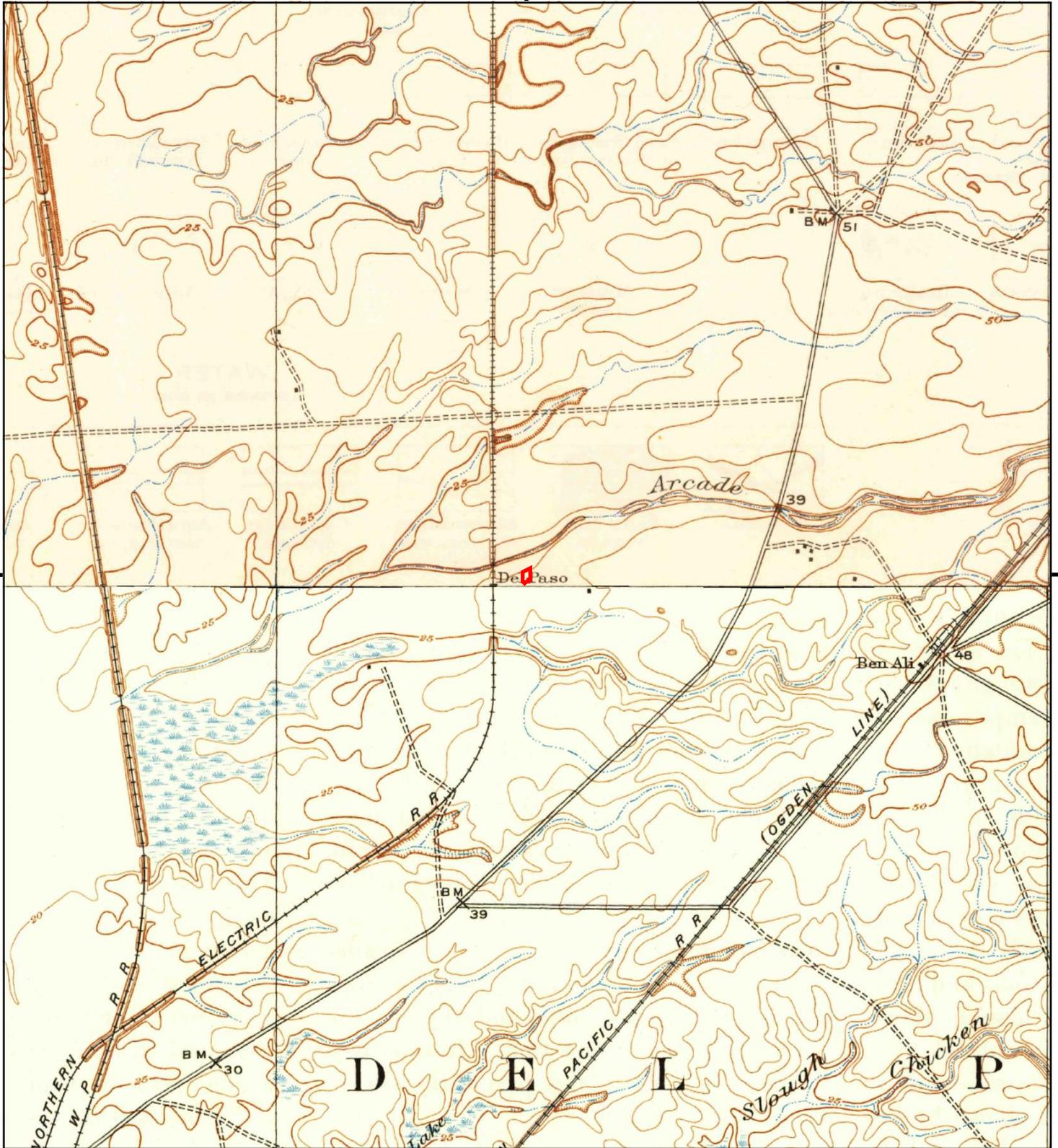
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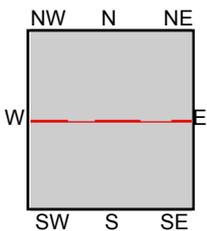
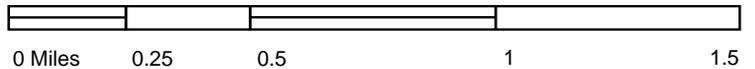
TP, Rio Linda, 1950, 7.5-minute  
S, Sacramento East, 1949, 7.5-minute

**SITE NAME:** Sarita Prasad SAC  
**ADDRESS:** 3200 Rio Linda Boulevard  
Sacramento, CA 95815  
**CLIENT:** Soar Environmental Consulting, Inc.





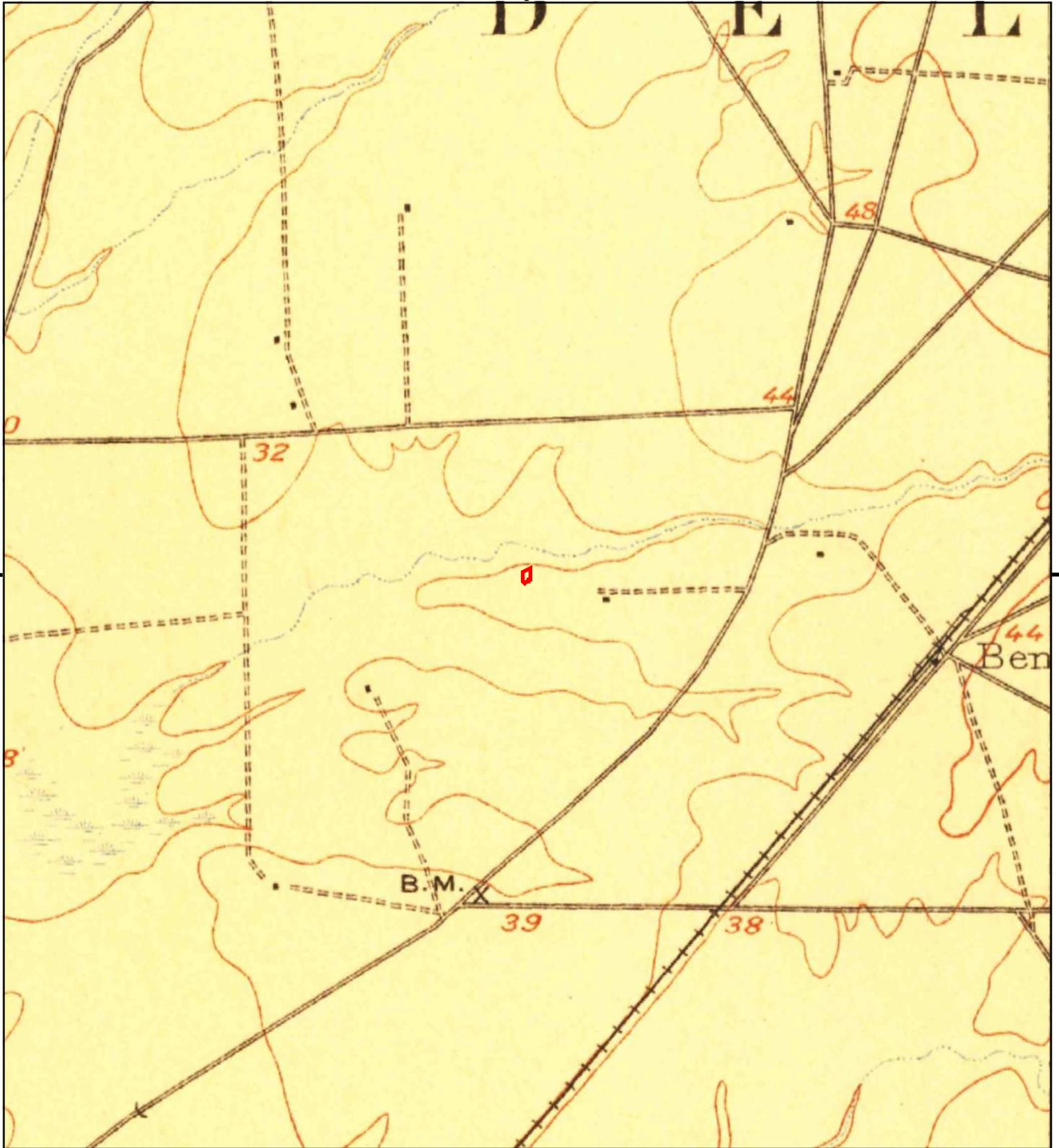
This report includes information from the following map sheet(s).



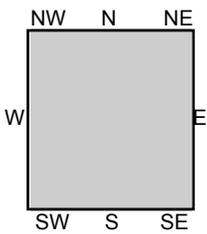
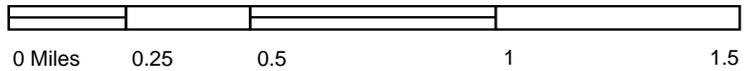
TP, Arcade, 1911, 7.5-minute  
S, Brighton, 1911, 7.5-minute

**SITE NAME:** Sarita Prasad SAC  
**ADDRESS:** 3200 Rio Linda Boulevard  
 Sacramento, CA 95815  
**CLIENT:** Soar Environmental Consulting, Inc.





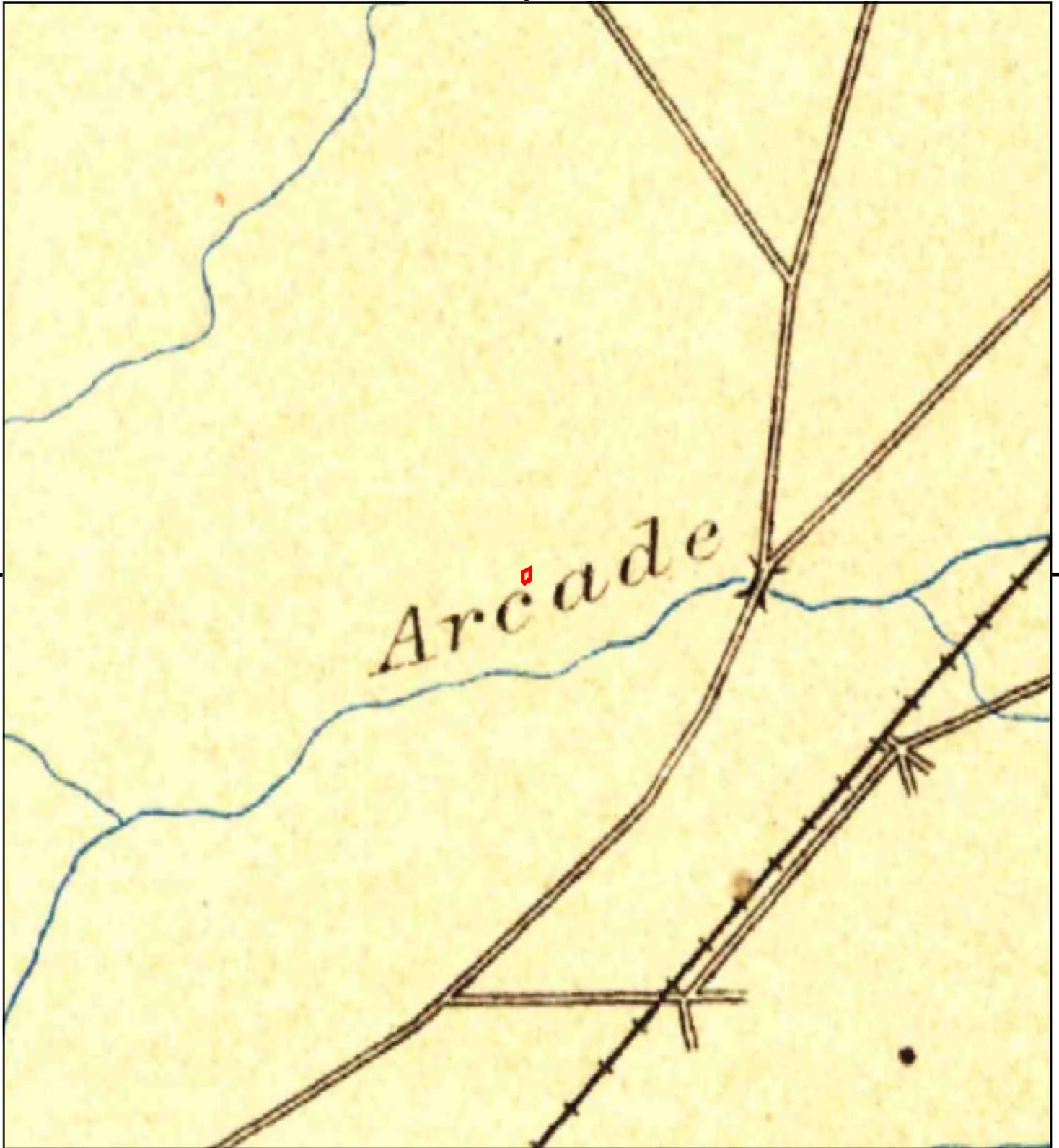
This report includes information from the following map sheet(s).



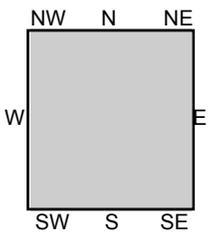
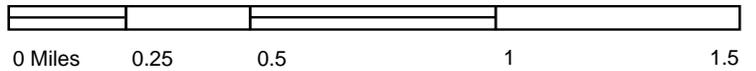
TP, Fair Oaks, 1902, 15-minute

SITE NAME: Sarita Prasad SAC  
ADDRESS: 3200 Rio Linda Boulevard  
Sacramento, CA 95815  
CLIENT: Soar Environmental Consulting, Inc.





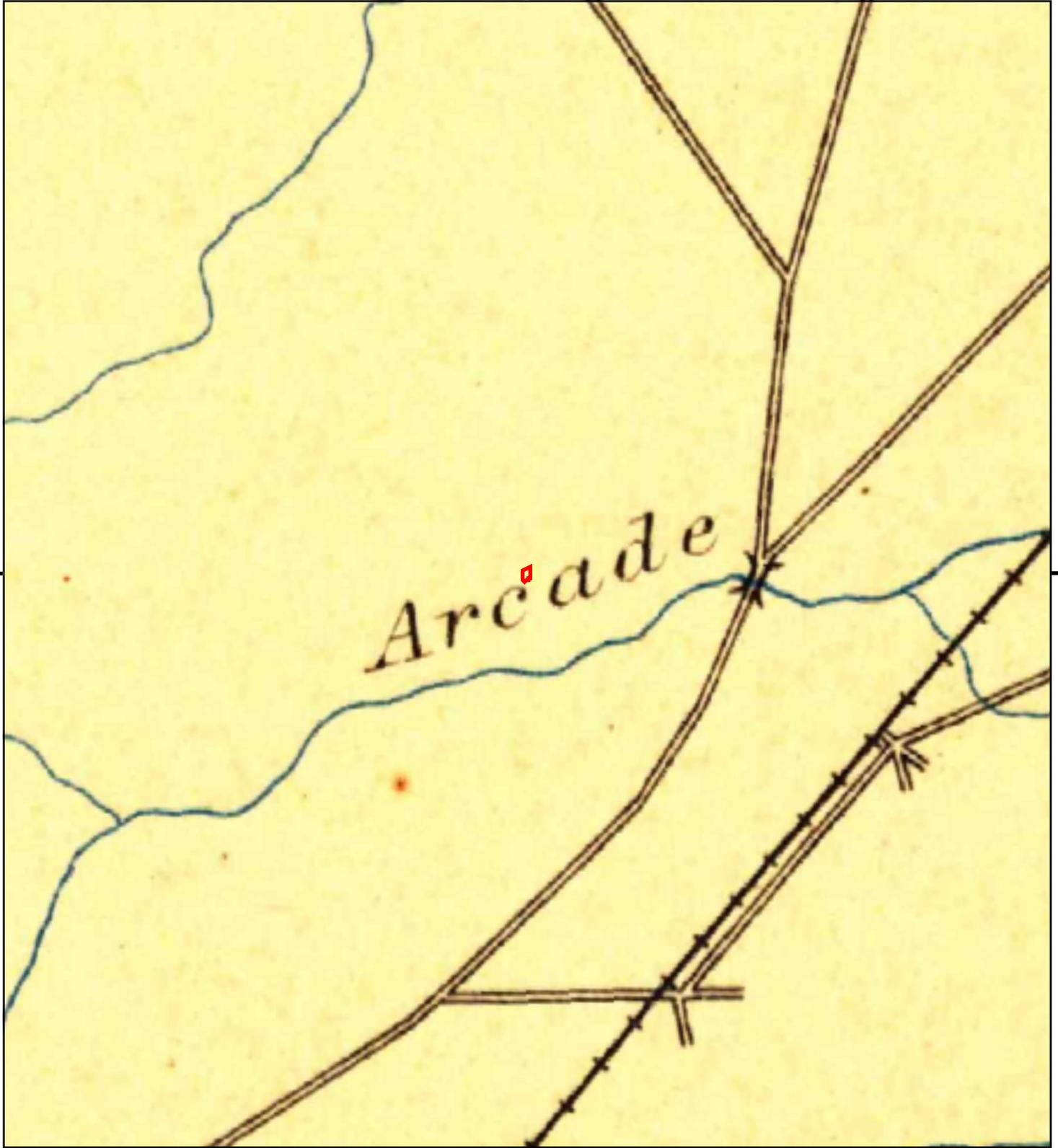
This report includes information from the following map sheet(s).



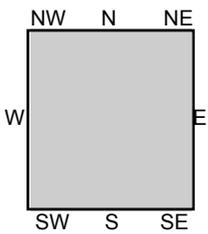
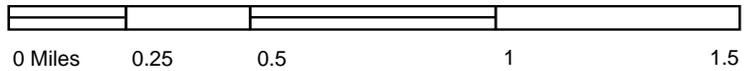
TP, Sacramento, 1893, 30-minute

SITE NAME: Sarita Prasad SAC  
ADDRESS: 3200 Rio Linda Boulevard  
Sacramento, CA 95815  
CLIENT: Soar Environmental Consulting, Inc.





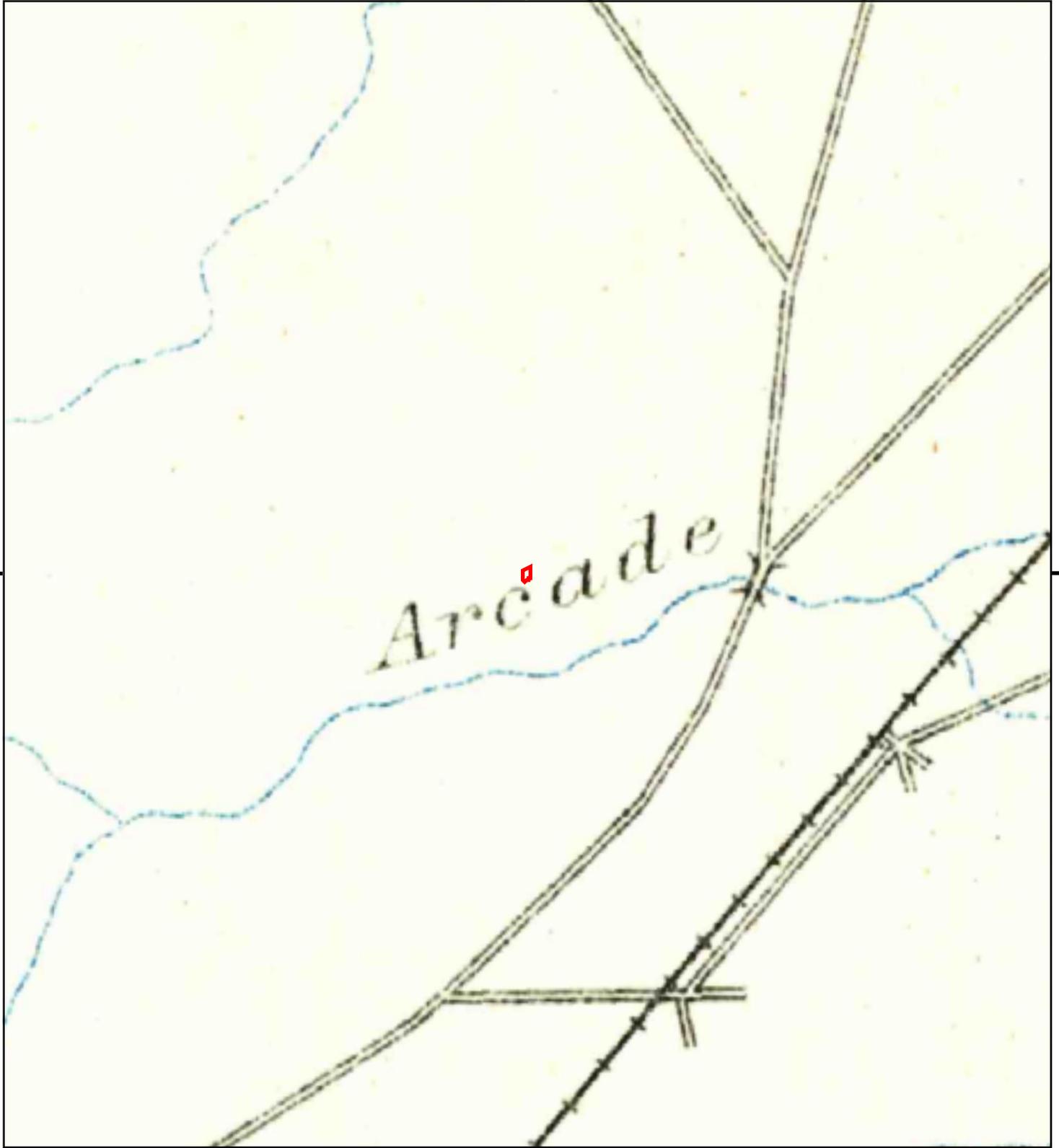
This report includes information from the following map sheet(s).



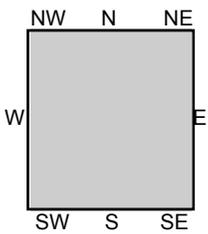
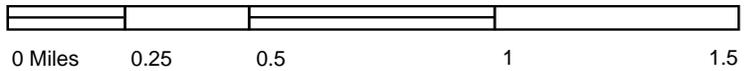
TP, Sacramento, 1892, 30-minute

SITE NAME: Sarita Prasad SAC  
ADDRESS: 3200 Rio Linda Boulevard  
Sacramento, CA 95815  
CLIENT: Soar Environmental Consulting, Inc.





This report includes information from the following map sheet(s).



TP, Sacramento, 1891, 30-minute

SITE NAME: Sarita Prasad SAC  
ADDRESS: 3200 Rio Linda Boulevard  
Sacramento, CA 95815  
CLIENT: Soar Environmental Consulting, Inc.





INQUIRY #: 7287764.8

YEAR: 1993

 = 500'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY #: 7287764.8

YEAR: 1984

— = 500'





INQUIRY #: 7287764.8

YEAR: 1972

— = 500'





INQUIRY #: 7287764.8

YEAR: 1966

— = 500'





INQUIRY #: 7287764.8

YEAR: 1964

— = 500'





INQUIRY #: 7287764.8

YEAR: 1957

— = 500'





INQUIRY #: 7287764.8

YEAR: 1947

— = 500'





INQUIRY #: 7287764.8

YEAR: 1937

 = 500'



**Sarita Prasad SAC**

3200 Rio Linda Boulevard  
Sacramento, CA 95815

Inquiry Number: 7287764.5  
March 23, 2023

# The EDR-City Directory Abstract

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## 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 Abstract 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 Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at approximately five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through current. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

Summary information obtained is provided in the text of this report.

### RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer.

### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

| <u>Year</u> | <u>Source</u>        | <u>TP</u> | <u>Adjoining</u> | <u>Text Abstract</u> | <u>Source Image</u> |
|-------------|----------------------|-----------|------------------|----------------------|---------------------|
| 2020        | EDR Digital Archive  | -         | X                | X                    | -                   |
| 2017        | Cole Information     | X         | X                | X                    | -                   |
| 2014        | Cole Information     | X         | X                | X                    | -                   |
| 2010        | Cole Information     | X         | X                | X                    | -                   |
| 2005        | Cole Information     | X         | X                | X                    | -                   |
|             | Haines Company, Inc. | X         | X                | X                    | -                   |
| 2002        | SBC PACIFIC BELL     | -         | -                | -                    | -                   |
| 2000        | Cole Information     | X         | X                | X                    | -                   |
| 1999        | Haines & Company     | X         | X                | X                    | -                   |
| 1995        | Cole Information     | X         | X                | X                    | -                   |
|             | Pacific Bell         | X         | X                | X                    | -                   |
| 1992        | Cole Information     | X         | X                | X                    | -                   |
| 1991        | Pacific Bell         | -         | X                | X                    | -                   |
| 1982        | R. L. Polk & Co.     | -         | -                | -                    | -                   |
| 1980        | R. L. Polk & Co.     | X         | X                | X                    | -                   |
| 1975        | R. L. Polk & Co.     | X         | X                | X                    | -                   |

## EXECUTIVE SUMMARY

| <u>Year</u> | <u>Source</u>                       | <u>TP</u> | <u>Adjoining</u> | <u>Text Abstract</u> | <u>Source Image</u> |
|-------------|-------------------------------------|-----------|------------------|----------------------|---------------------|
| 1970        | Sacramento Directory Co.            | X         | X                | X                    | -                   |
| 1966        | Sacramento Directory Co.            | -         | -                | -                    | -                   |
| 1965        | Sacramento Directory Co. Publishers | X         | X                | X                    | -                   |
| 1961        | Sacramento Directory Co.            | X         | X                | X                    | -                   |
| 1957        | Sacramento Directory Co.            | X         | X                | X                    | -                   |
| 1956        | Sacramento Directory Co.            | -         | X                | X                    | -                   |
| 1952        | Sacramento Directory Co.            | X         | X                | X                    | -                   |
| 1947        | Sacramento Directory Co.            | -         | X                | X                    | -                   |
| 1942        | Sacramento Directory Co.            | X         | X                | X                    | -                   |
| 1937        | Sacramento Directory Co.            | -         | -                | -                    | -                   |
| 1933        | Sacramento Directory Co.            | -         | -                | -                    | -                   |
| 1928        | Sacramento Directory Co.            | -         | -                | -                    | -                   |
| 1923        | Sacramento Directory Co.            | -         | -                | -                    | -                   |
| 1920        | Sacramento Directory Co.            | -         | -                | -                    | -                   |

# FINDINGS

## TARGET PROPERTY INFORMATION

### ADDRESS

3200 Rio Linda Boulevard  
Sacramento, CA 95815

### FINDINGS DETAIL

Target Property research detail.

### RIO LINDA BLVD

#### **3200 RIO LINDA BLVD**

| <u>Year</u> | <u>Uses</u>                  | <u>Source</u>                       |
|-------------|------------------------------|-------------------------------------|
| 2017        | FUEL STOP                    | Cole Information                    |
| 2014        | FUEL STOP                    | Cole Information                    |
| 2010        | FUEL STOP                    | Cole Information                    |
| 2005        | FUEL STOP                    | Cole Information                    |
| 2000        | FULL STOP                    | Cole Information                    |
| 1999        | FARUK Mohammed               | Haines & Company                    |
|             | FULL STOP                    | Haines & Company                    |
| 1995        | FULL STOP                    | Cole Information                    |
|             | Full Stop                    | Pacific Bell                        |
| 1992        | FUEL STOP                    | Cole Information                    |
| 1980        | Speed Bird Gas Station       | R. L. Polk & Co.                    |
| 1975        | Vacant                       | R. L. Polk & Co.                    |
| 1970        | Gerwer Shell Service         | Sacramento Directory Co.            |
| 1965        | Gerwer Shell Serv gas sta    | Sacramento Directory Co. Publishers |
| 1961        | Arcade Shell Service gas sta | Sacramento Directory Co.            |
| 1957        | Arcade Shell Service         | Sacramento Directory Co.            |
| 1952        | Christensen T T gro          | Sacramento Directory Co.            |
| 1942        | Fretts H A gro               | Sacramento Directory Co.            |

## FINDINGS

### ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

#### ALTOS AVE

##### **3206 ALTOS AVE**

| <u>Year</u> | <u>Uses</u>            | <u>Source</u>            |
|-------------|------------------------|--------------------------|
| 1957        | Steenburgen Marvin w a | Sacramento Directory Co. |
| 1952        | Steenburgen Marvin     | Sacramento Directory Co. |

##### **3209 ALTOS AVE**

| <u>Year</u> | <u>Uses</u> | <u>Source</u>            |
|-------------|-------------|--------------------------|
| 1952        | Vacant      | Sacramento Directory Co. |

##### **3212 ALTOS AVE**

| <u>Year</u> | <u>Uses</u>      | <u>Source</u>            |
|-------------|------------------|--------------------------|
| 1957        | Golding Anne Mrs | Sacramento Directory Co. |
| 1952        | Griggs R R       | Sacramento Directory Co. |

##### **3219 ALTOS AVE**

| <u>Year</u> | <u>Uses</u>       | <u>Source</u>            |
|-------------|-------------------|--------------------------|
| 1957        | Vance Alvin L w a | Sacramento Directory Co. |

##### **3220 ALTOS AVE**

| <u>Year</u> | <u>Uses</u>      | <u>Source</u>            |
|-------------|------------------|--------------------------|
| 1957        | Mallory Leslie A | Sacramento Directory Co. |
|             | AWAS 8986        | Sacramento Directory Co. |
| 1952        | Mallory L A      | Sacramento Directory Co. |

##### **3233 ALTOS AVE**

| <u>Year</u> | <u>Uses</u>     | <u>Source</u>        |
|-------------|-----------------|----------------------|
| 2020        | SYEDA HAMDANI   | EDR Digital Archive  |
| 2017        | ANDREW GARCIA   | Cole Information     |
| 2014        | ANDREW GARCIA   | Cole Information     |
| 2010        | SONIA GUTIERREZ | Cole Information     |
| 2005        | GARCIAAndrew    | Haines Company, Inc. |

## FINDINGS

| <u>Year</u> | <u>Uses</u>        | <u>Source</u>            |
|-------------|--------------------|--------------------------|
| 2005        | ANDREW GARCIA      | Cole Information         |
| 1999        | CRENSHAW Truman    | Haines & Company         |
| 1995        | CRENSHAW Truman O  | Pacific Bell             |
|             | CRENSHAW, TRUMAN O | Cole Information         |
| 1992        | CRENSHAW, TRUMAN O | Cole Information         |
| 1991        | Crenshaw Truman O  | Pacific Bell             |
| 1980        | Byers Charles C    | R. L. Polk & Co.         |
| 1975        | Byers Charles C    | R. L. Polk & Co.         |
| 1970        | Byers Charles C    | Sacramento Directory Co. |

### 3241 ALTOS AVE

| <u>Year</u> | <u>Uses</u>      | <u>Source</u>            |
|-------------|------------------|--------------------------|
| 2020        | ENEKO GILES      | EDR Digital Archive      |
|             | JOHNNY MCKNIGHT  | EDR Digital Archive      |
|             | CHASE CHARLES    | EDR Digital Archive      |
| 2017        | RUTH EVERETT     | Cole Information         |
| 2014        | RUTH EVERETT     | Cole Information         |
| 2010        | RUTH EVERETT     | Cole Information         |
| 2005        | EVERETTDanel I   | Haines Company, Inc.     |
| 1999        | EVERETT Daniel   | Haines & Company         |
| 1995        | EVERETT C Danl   | Pacific Bell             |
|             | EVERETT, C D     | Cole Information         |
| 1992        | EVERETT, C D     | Cole Information         |
| 1991        | Everett C Danl   | Pacific Bell             |
| 1980        | Everett Clifford | R. L. Polk & Co.         |
| 1975        | Everett Clifford | R. L. Polk & Co.         |
| 1970        | Everett D Cliff  | Sacramento Directory Co. |

### 3245 ALTOS AVE

| <u>Year</u> | <u>Uses</u>     | <u>Source</u>    |
|-------------|-----------------|------------------|
| 1999        | XXXX            | Haines & Company |
|             | TAYLOR Lila     | Haines & Company |
| 1980        | Grant Ken       | R. L. Polk & Co. |
| 1975        | Johnson William | R. L. Polk & Co. |

## FINDINGS

| <u>Year</u> | <u>Uses</u> | <u>Source</u>            |
|-------------|-------------|--------------------------|
| 1970        | No Return   | Sacramento Directory Co. |

### **ARCADE BLVD**

#### **807 ARCADE BLVD**

| <u>Year</u> | <u>Uses</u>        | <u>Source</u>                       |
|-------------|--------------------|-------------------------------------|
| 2020        | RIGOBERTO LOPEZ    | EDR Digital Archive                 |
| 2017        | RIGOBERTO LOPEZ    | Cole Information                    |
| 2014        | BERTIN MENDOZA     | Cole Information                    |
| 2010        | OCCUPANT UNKNOWN   | Cole Information                    |
| 2005        | OGUTIERREZ Fedenco | Haines Company, Inc.                |
|             | OCCUPANT UNKNOWN   | Cole Information                    |
| 2000        | F GUTIERREZ        | Cole Information                    |
| 1999        | GUTIERREZ Federico | Haines & Company                    |
| 1995        | SANCHEZ, PEDRO     | Cole Information                    |
| 1991        | Sanchez Pete       | Pacific Bell                        |
| 1980        | Ugenti Fiank       | R. L. Polk & Co.                    |
| 1975        | Ugenti Frank R     | R. L. Polk & Co.                    |
| 1965        | Ugenti Frank R W   | Sacramento Directory Co. Publishers |
| 1957        | Ugenti Frank R w a | Sacramento Directory Co.            |
| 1952        | Ugenti F R         | Sacramento Directory Co.            |

#### **808 ARCADE BLVD**

| <u>Year</u> | <u>Uses</u>       | <u>Source</u>        |
|-------------|-------------------|----------------------|
| 2020        | RUBEN LUA         | EDR Digital Archive  |
| 2017        | LUCKRISA JONES    | Cole Information     |
| 2014        | LUCKRISA JONES    | Cole Information     |
| 2010        | PHILLIP UPEGA     | Cole Information     |
| 2005        | JONESLuckrrisa    | Haines Company, Inc. |
|             | SMALLEY Roberta   | Haines Company, Inc. |
| 2000        | LUCY JONES        | Cole Information     |
| 1999        | JONES Lucy        | Haines & Company     |
| 1995        | OCCUPANT UNKNOWNN | Cole Information     |
| 1980        | James C           | R. L. Polk & Co.     |

## FINDINGS

| <u>Year</u> | <u>Uses</u>             | <u>Source</u>                       |
|-------------|-------------------------|-------------------------------------|
| 1975        | Estes Wilma V Mrs       | R. L. Polk & Co.                    |
| 1970        | Estes Wilma V Mrs       | Sacramento Directory Co.            |
| 1965        | Estes Wilmna V Mrs Os W | Sacramento Directory Co. Publishers |
| 1957        | Schrader 0 Constn w a   | Sacramento Directory Co.            |
|             | Schrader Odis 0 4 W     | Sacramento Directory Co.            |
| 1952        | Schrader Odis           | Sacramento Directory Co.            |

### 813 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>           | <u>Source</u>                       |
|-------------|-----------------------|-------------------------------------|
| 2020        | SHARON NAYLOR         | EDR Digital Archive                 |
| 2017        | CARLOS LUJAN          | Cole Information                    |
| 2010        | OCCUPANT UNKNOWN      | Cole Information                    |
| 2005        | XXXX                  | Haines Company, Inc.                |
|             | PATRICK ROBIN         | Cole Information                    |
| 2000        | SHARON MAYLOR         | Cole Information                    |
| 1999        | MAYLOR Sharon         | Haines & Company                    |
|             | BATES ROBT G          | Haines & Company                    |
| 1980        | Rains James L         | R. L. Polk & Co.                    |
| 1975        | Rains James L         | R. L. Polk & Co.                    |
| 1970        | Hammett Lawrence V Jr | Sacramento Directory Co.            |
| 1965        | Clark Jos F W         | Sacramento Directory Co. Publishers |
|             | Uman Alan D           | Sacramento Directory Co. Publishers |
| 1957        | Clark Jos F O         | Sacramento Directory Co.            |

### 844 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>     | <u>Source</u>        |
|-------------|-----------------|----------------------|
| 2005        | ONARAYAN Pushpa | Haines Company, Inc. |

### 859 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>     | <u>Source</u>    |
|-------------|-----------------|------------------|
| 2014        | ANTONIO MORALES | Cole Information |

### 930 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>    | <u>Source</u>       |
|-------------|----------------|---------------------|
| 2020        | THOMAS RAWLINS | EDR Digital Archive |

## FINDINGS

| <u>Year</u> | <u>Uses</u>         | <u>Source</u>                       |
|-------------|---------------------|-------------------------------------|
| 2020        | THERESA RAWLINS     | EDR Digital Archive                 |
| 2017        | PATRICIA DUNN       | Cole Information                    |
| 2014        | LAVADA JACKSON      | Cole Information                    |
| 2010        | OCCUPANT UNKNOWN    | Cole Information                    |
| 2005        | JORDAN Jeffery      | Haines Company, Inc.                |
|             | JIM JORDAN          | Cole Information                    |
| 2000        | WILLIAM JORDAN      | Cole Information                    |
| 1999        | JORDAN William J    | Haines & Company                    |
| 1995        | OCCUPANT UNKNOWNNN  | Cole Information                    |
| 1980        | Jordan Edgai W      | R. L. Polk & Co.                    |
| 1975        | Jordan Edgar W      | R. L. Polk & Co.                    |
| 1970        | Jordan Edgar W      | Sacramento Directory Co.            |
| 1965        | Jordan Edgar W      | Sacramento Directory Co. Publishers |
| 1957        | Campbell John H w a | Sacramento Directory Co.            |
| 1952        | Stringfield S L jr  | Sacramento Directory Co.            |
|             | rear Elder D H      | Sacramento Directory Co.            |
| 1947        | Cratg R XV          | Sacramento Directory Co.            |
| 1942        | Jones Melvin        | Sacramento Directory Co.            |

### 935 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>       | <u>Source</u>        |
|-------------|-------------------|----------------------|
| 2020        | DORRIS DOLE       | EDR Digital Archive  |
|             | LOONIE GABALL     | EDR Digital Archive  |
|             | DESIREE GABALL    | EDR Digital Archive  |
|             | RONALD MC GOWEN   | EDR Digital Archive  |
|             | BARBARA CARPENTER | EDR Digital Archive  |
| 2017        | RONALD MCGOWEN    | Cole Information     |
| 2014        | REGINA CARTER     | Cole Information     |
| 2005        | OGABALLLoonr      | Haines Company, Inc. |
|             | LOONIE GABALL     | Cole Information     |
| 2000        | GARY FORNCROOK    | Cole Information     |
| 1999        | FORNCROOK Gary    | Haines & Company     |
| 1995        | FORNCROOK, GARY M | Cole Information     |

## FINDINGS

| <u>Year</u> | <u>Uses</u>                 | <u>Source</u>                       |
|-------------|-----------------------------|-------------------------------------|
| 1980        | Mitchell David B            | R. L. Polk & Co.                    |
| 1975        | Proctor Wanda Mrs           | R. L. Polk & Co.                    |
| 1970        | Edwards Fernanda B Mrs      | Sacramento Directory Co.            |
| 1965        | Connors Chas                | Sacramento Directory Co. Publishers |
| 1957        | Triznble Roy A 0 wa         | Sacramento Directory Co.            |
| 1952        | Trimble R A sand and gravel | Sacramento Directory Co.            |
| 1947        | Kiedaisch K D               | Sacramento Directory Co.            |
| 1942        | Milne J M                   | Sacramento Directory Co.            |

### 940 ARCADE BLVD

| <u>Year</u> | <u>Uses</u> | <u>Source</u>    |
|-------------|-------------|------------------|
| 2000        | MARIA PEREZ | Cole Information |

### 943 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>              | <u>Source</u>                       |
|-------------|--------------------------|-------------------------------------|
| 2017        | MICHAEL WILLIAMS         | Cole Information                    |
| 2014        | MICHAEL WILLIAMS         | Cole Information                    |
| 2010        | OCCUPANT UNKNOWN         | Cole Information                    |
| 2005        | XXXX                     | Haines Company, Inc.                |
|             | CARLA WILLIAMS           | Cole Information                    |
| 1999        | PEREZ Maria E            | Haines & Company                    |
| 1980        | Charamzd                 | R. L. Polk & Co.                    |
| 1975        | Willis Leland A          | R. L. Polk & Co.                    |
| 1970        | Vacant                   | Sacramento Directory Co.            |
| 1965        | Edwards Fernanda Mrs L W | Sacramento Directory Co. Publishers |
| 1957        | Edwards Fernanda E Mrs   | Sacramento Directory Co.            |
| 1952        | Edwards F E Mrs          | Sacramento Directory Co.            |
| 1947        | Talbot H M               | Sacramento Directory Co.            |
| 1942        | Edwards Fernanda Mrs     | Sacramento Directory Co.            |

### 944 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>    | <u>Source</u>       |
|-------------|----------------|---------------------|
| 2020        | LINDA NGUYEN   | EDR Digital Archive |
|             | JOSE HERNANDEZ | EDR Digital Archive |

## FINDINGS

| <u>Year</u> | <u>Uses</u>          | <u>Source</u>                       |
|-------------|----------------------|-------------------------------------|
| 2017        | MARY BREVERLY        | Cole Information                    |
| 2014        | MARY BREVERLY        | Cole Information                    |
| 2010        | VLADIMIR SAMOYLOVICH | Cole Information                    |
| 2005        | HERNANDEZ Ramiro     | Haines Company, Inc.                |
|             | FERNANDO HERNANDEZ   | Cole Information                    |
| 1999        | HERNANDEZ Jose       | Haines & Company                    |
| 1995        | WRIGHT, PHILIP W     | Cole Information                    |
| 1980        | Schneider Ottilie    | R. L. Polk & Co.                    |
| 1975        | Green Frank          | R. L. Polk & Co.                    |
| 1970        | No Return            | Sacramento Directory Co.            |
| 1965        | Butler Cyril D W}    | Sacramento Directory Co. Publishers |
| 1957        | Butler Cyril D 0 w a | Sacramento Directory Co.            |
| 1952        | Boutwell C L         | Sacramento Directory Co.            |

### 945 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>       | <u>Source</u>                       |
|-------------|-------------------|-------------------------------------|
| 2020        | SONDRA HAMMOND    | EDR Digital Archive                 |
| 2017        | SONDRA HAMMOND    | Cole Information                    |
| 2014        | CARLA WILLIAMS    | Cole Information                    |
| 2010        | NICOLE TILLMAN    | Cole Information                    |
| 2005        | OMILLER Andre     | Haines Company, Inc.                |
|             | MARSHA WALTON     | Cole Information                    |
| 1999        | WILSON Donald     | Haines & Company                    |
| 1980        | Vacant            | R. L. Polk & Co.                    |
| 1975        | Brown Hans R      | R. L. Polk & Co.                    |
| 1970        | No Return         | Sacramento Directory Co.            |
| 1965        | No Return         | Sacramento Directory Co. Publishers |
| 1957        | Wright Thos S w a | Sacramento Directory Co.            |
| 1952        | Simunek R F       | Sacramento Directory Co.            |
| 1947        | St John J D       | Sacramento Directory Co.            |
| 1942        | Strothers Chester | Sacramento Directory Co.            |

## FINDINGS

### 948 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>                            | <u>Source</u>                            |
|-------------|--|--|
| 2020        | RANDY LEWIS                            | EDR Digital Archive                      |
| 2014        | JOE CHWALOWSKI                         | Cole Information                         |
| 2010        | JOE CHWALOWSKI                         | Cole Information                         |
| 2005        | SCHWALOWSKI Jozef DANLEY T<br>T DANLEY | Haines Company, Inc.<br>Cole Information |
| 2000        | RANDY LEWIS                            | Cole Information                         |
| 1999        | CHWALOWSKI Jozel<br>LEWIS Randy        | Haines & Company<br>Haines & Company     |
| 1980        | Lewis Randall                          | R. L. Polk & Co.                         |
| 1975        | Christanio Alvarez                     | R. L. Polk & Co.                         |
| 1970        | No Return                              | Sacramento Directory Co.                 |
| 1965        | Hillebrand Robt G O W                  | Sacramento Directory Co. Publishers      |
| 1957        | Hillebrand Robt G w a                  | Sacramento Directory Co.                 |
| 1952        | Prescott C E                           | Sacramento Directory Co.                 |

### 949 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>           | <u>Source</u>                       |
|-------------|-----------------------|-------------------------------------|
| 2020        | BEATRICE MCKAY        | EDR Digital Archive                 |
| 2017        | BEATRICE MCKAY        | Cole Information                    |
| 2014        | BEATRICE MCKAY        | Cole Information                    |
| 2010        | BARBARA SHAW          | Cole Information                    |
| 2005        | MCKAY Beatrice        | Haines Company, Inc.                |
| 2000        | B MCKAY               | Cole Information                    |
| 1999        | MCKAY Beatrice        | Haines & Company                    |
| 1995        | MCKAY, B              | Cole Information                    |
| 1980        | Me Kay L Beat ice Mis | R. L. Polk & Co.                    |
| 1975        | Me Kay L Beatrice Mrs | R. L. Polk & Co.                    |
| 1970        | Me Kay Beatrice L Mrs | Sacramento Directory Co.            |
| 1965        | Mc Kay Marion A O W   | Sacramento Directory Co. Publishers |
| 1957        | Whitcomb Bennie E w a | Sacramento Directory Co.            |
| 1952        | Whitcomb B E          | Sacramento Directory Co.            |
| 1947        | Hill L H              | Sacramento Directory Co.            |

## FINDINGS

### 952 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>         | <u>Source</u>                       |
|-------------|---------------------|-------------------------------------|
| 2020        | JAIME HUERTA        | EDR Digital Archive                 |
|             | BRANDON VERGARA     | EDR Digital Archive                 |
| 2017        | JAIME HUERTA        | Cole Information                    |
| 2014        | ERNESTO VEVGAR      | Cole Information                    |
| 2010        | NAYELI BERNAL       | Cole Information                    |
| 2005        | FLORESJuan          | Haines Company, Inc.                |
|             | JUAN FLORES         | Cole Information                    |
| 2000        | OCCUPANT UNKNOWN    | Cole Information                    |
| 1999        | GUTIERREZ Elsa      | Haines & Company                    |
| 1995        | MEZA Sergio         | Pacific Bell                        |
|             | OCCUPANT UNKNOWN    | Cole Information                    |
| 1980        | Hopkins Haivev      | R. L. Polk & Co.                    |
| 1975        | Pickering Ruben     | R. L. Polk & Co.                    |
| 1970        | No Return           | Sacramento Directory Co.            |
| 1965        | Paul Larry J        | Sacramento Directory Co. Publishers |
| 1957        | Tyhurst Ernest R jr | Sacramento Directory Co.            |

### 955 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>        | <u>Source</u>            |
|-------------|--------------------|--------------------------|
| 2020        | ALLEN DORRELL      | EDR Digital Archive      |
|             | SARAH DORRELL      | EDR Digital Archive      |
| 2017        | ALLEN DORRELL      | Cole Information         |
| 2014        | ALLEN DORRELL      | Cole Information         |
| 2010        | ALLEN DORRELL      | Cole Information         |
| 2005        | DORRELLAllen       | Haines Company, Inc.     |
|             | ALLEN DORRELL      | Cole Information         |
| 1999        | KEBEDE Wehiba      | Haines & Company         |
| 1995        | OCCUPANT UNKNOWN   | Cole Information         |
| 1991        | De Vore Wm J       | Pacific Bell             |
| 1980        | De Voie Marv O Mrs | R. L. Polk & Co.         |
| 1975        | De Vore Wm J       | R. L. Polk & Co.         |
| 1970        | De Vore Wm J       | Sacramento Directory Co. |

## FINDINGS

| <u>Year</u> | <u>Uses</u>             | <u>Source</u>                       |
|-------------|-------------------------|-------------------------------------|
| 1965        | De Vore Wm J 0 WAS 5514 | Sacramento Directory Co. Publishers |
| 1957        | De Vore Wm J 0 w a      | Sacramento Directory Co.            |
| 1952        | Yates C E               | Sacramento Directory Co.            |
| 1947        | De Tore Arnanda Mrs     | Sacramento Directory Co.            |
| 1942        | Thompson E D            | Sacramento Directory Co.            |

### 961 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>          | <u>Source</u>                       |
|-------------|----------------------|-------------------------------------|
| 2010        | VERONICA DARLING     | Cole Information                    |
| 2005        | XXXO                 | Haines Company, Inc.                |
|             | VERONICA DARLING     | Cole Information                    |
| 1999        | DARLING Robert       | Haines & Company                    |
| 1995        | DARLING, ROBERT C    | Cole Information                    |
| 1980        | Darling Robt C       | R. L. Polk & Co.                    |
| 1975        | Darling Robt C       | R. L. Polk & Co.                    |
| 1970        | Darling Robt C       | Sacramento Directory Co.            |
| 1965        | Darling Robt C 0 W   | Sacramento Directory Co. Publishers |
| 1957        | Darling Robt C 0 w a | Sacramento Directory Co.            |
| 1952        | Rachels Leonard      | Sacramento Directory Co.            |
| 1947        | Vacant               | Sacramento Directory Co.            |
| 1942        | Barry Geo            | Sacramento Directory Co.            |

### 970 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>       | <u>Source</u>        |
|-------------|-------------------|----------------------|
| 2020        | RICKEY JOHANSEN   | EDR Digital Archive  |
|             | TELESFORO MORALES | EDR Digital Archive  |
| 2017        | TELESFORO MORALES | Cole Information     |
| 2014        | BEATRICE POLLIVER | Cole Information     |
| 2005        | SMITHTerry A      | Haines Company, Inc. |
| 1999        | JOHANSEN Rickey   | Haines & Company     |
| 1995        | OCCUPANT UNKNOWNN | Cole Information     |
| 1992        | WING, JOHN        | Cole Information     |
| 1980        | Heinandez Vincent | R. L. Polk & Co.     |

## FINDINGS

### 971 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>                    | <u>Source</u>                       |
|-------------|--------------------------------|-------------------------------------|
| 2017        | JEFFREY CROFOOT                | Cole Information                    |
| 2014        | OCCUPANT UNKNOWN               | Cole Information                    |
| 2010        | OCCUPANT UNKNOWN               | Cole Information                    |
| 2005        | OCROFOOT Jeffrey               | Haines Company, Inc.                |
|             | JEFFREY CROFOOT                | Cole Information                    |
| 2000        | OCCUPANT UNKNOWN               | Cole Information                    |
| 1999        | JIMENEZ Steven                 | Haines & Company                    |
| 1995        | JIMENEZ, S A                   | Cole Information                    |
| 1980        | Wolivet Sid                    | R. L. Polk & Co.                    |
| 1975        | Gentry Butch                   | R. L. Polk & Co.                    |
| 1970        | White Hazel F Mrs              | Sacramento Directory Co.            |
| 1965        | White Hazel F Mrs 0 WA 5 240 E | Sacramento Directory Co. Publishers |
| 1957        | White Hazel F Mrs              | Sacramento Directory Co.            |
| 1952        | White H F Mrs                  | Sacramento Directory Co.            |
| 1947        | AWhite H F Mrs                 | Sacramento Directory Co.            |
| 1942        | OWhite R V                     | Sacramento Directory Co.            |

### 978 ARCADE BLVD

| <u>Year</u> | <u>Uses</u> | <u>Source</u>    |
|-------------|-------------|------------------|
| 1999        | XXXX        | Haines & Company |

### 980 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>       | <u>Source</u>        |
|-------------|-------------------|----------------------|
| 2020        | RAYMUNDO RUIZ     | EDR Digital Archive  |
|             | YAHAYRA RUIZ      | EDR Digital Archive  |
|             | MARIA RUIZ        | EDR Digital Archive  |
| 2017        | RAYMUNDO RUIZ     | Cole Information     |
| 2014        | RAYMUNDO RUIZ     | Cole Information     |
| 2010        | RAYMUNDO RUIZ     | Cole Information     |
| 2005        | ORUIZ Raymundo    | Haines Company, Inc. |
|             | RAYMUNDO RUIZ     | Cole Information     |
| 2000        | JAVIER RUIZ       | Cole Information     |
| 1999        | LAZCANO Jose Luis | Haines & Company     |

## FINDINGS

| <u>Year</u> | <u>Uses</u>          | <u>Source</u>                       |
|-------------|----------------------|-------------------------------------|
| 1999        | RUIZ Raymundo        | Haines & Company                    |
| 1995        | RAU, RITA M          | Cole Information                    |
| 1980        | Robler Eleanor       | R. L. Polk & Co.                    |
| 1975        | Apartments           | R. L. Polk & Co.                    |
|             | Vacant               | R. L. Polk & Co.                    |
|             | Vacant               | R. L. Polk & Co.                    |
|             | Miner Henry          | R. L. Polk & Co.                    |
|             | Wever Howard         | R. L. Polk & Co.                    |
|             | Vacant               | R. L. Polk & Co.                    |
|             | Vacant               | R. L. Polk & Co.                    |
| 1970        | Miner Henry          | Sacramento Directory Co.            |
| 1965        | Beddes Parley        | Sacramento Directory Co. Publishers |
|             | Vacant               | Sacramento Directory Co. Publishers |
| 1957        | Crone Elmer J O wa   | Sacramento Directory Co.            |
| 1952        | Craig Loreen         | Sacramento Directory Co.            |
|             | Luther Fred          | Sacramento Directory Co.            |
|             | 1/2 Nantze F W       | Sacramento Directory Co.            |
| 1947        | Fetch G G            | Sacramento Directory Co.            |
|             | Mc Vey G A           | Sacramento Directory Co.            |
| 1942        | a Vanderhoff M L Mrs | Sacramento Directory Co.            |
|             | Sanfelice B F        | Sacramento Directory Co.            |

### 981 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>           | <u>Source</u>        |
|-------------|-----------------------|----------------------|
| 2017        | BARBARA ENGELHARDT    | Cole Information     |
| 2014        | BARBARA ENGELHARDT    | Cole Information     |
| 2010        | BARBARA ENGELHARDT    | Cole Information     |
| 2005        | ENGELHARDTBarbara     | Haines Company, Inc. |
|             | BARBARA ENGELHARDT    | Cole Information     |
| 2000        | BARBARA ENGELHARDT    | Cole Information     |
| 1999        | ENGELHARDT Barbara    | Haines & Company     |
| 1995        | ENGELHARDT, BARBARA A | Cole Information     |
| 1991        | Blake W H             | Pacific Bell         |

## FINDINGS

| <u>Year</u> | <u>Uses</u>       | <u>Source</u>                       |
|-------------|-------------------|-------------------------------------|
| 1980        | Blake Wm II       | R. L. Polk & Co.                    |
| 1975        | Blake Wm H        | R. L. Polk & Co.                    |
| 1970        | Blake Wm H        | Sacramento Directory Co.            |
| 1965        | Blake Wm H O W    | Sacramento Directory Co. Publishers |
| 1957        | Blake Wmn H O A W | Sacramento Directory Co.            |
| 1952        | Blake W H         | Sacramento Directory Co.            |
| 1947        | Blake W H         | Sacramento Directory Co.            |
| 1942        | Dahlberg R L      | Sacramento Directory Co.            |

### 982 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>      | <u>Source</u>            |
|-------------|------------------|--------------------------|
| 1999        | XXXX             | Haines & Company         |
| 1980        | Covington Herman | R. L. Polk & Co.         |
| 1975        | Vacant           | R. L. Polk & Co.         |
| 1970        | Crone Elmer J    | Sacramento Directory Co. |
|             | Nicholas Roy     | Sacramento Directory Co. |
|             | Buis Edw L       | Sacramento Directory Co. |
| 1957        | King Arth C      | Sacramento Directory Co. |

### 984 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>     | <u>Source</u>    |
|-------------|-----------------|------------------|
| 1980        | Teetei s Irothy | R. L. Polk & Co. |

### 988 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>     | <u>Source</u>        |
|-------------|-----------------|----------------------|
| 2020        | ANTHONY COX     | EDR Digital Archive  |
|             | CASEY ARMSTRONG | EDR Digital Archive  |
|             | NICOLE COX      | EDR Digital Archive  |
|             | TYSON CAITANO   | EDR Digital Archive  |
| 2017        | DANIELLE GEER   | Cole Information     |
| 2014        | CASEY ARMSTRONG | Cole Information     |
| 2010        | TYSON CAITANO   | Cole Information     |
| 2005        | OCAITANOTyson   | Haines Company, Inc. |
|             | TYSON CAITANO   | Cole Information     |

## FINDINGS

| <u>Year</u> | <u>Uses</u>        | <u>Source</u>                       |
|-------------|--------------------|-------------------------------------|
| 1999        | DORN Michael       | Haines & Company                    |
|             | SANDOVAL Cristina  | Haines & Company                    |
|             | TINLOY Gregory     | Haines & Company                    |
| 1991        | Ferguson Raymond W | Pacific Bell                        |
| 1980        | Felling Dorii      | R. L. Polk & Co.                    |
| 1975        | Felling D I        | R. L. Polk & Co.                    |
| 1970        | Feiling D I        | Sacramento Directory Co.            |
| 1965        | Valdez John G      | Sacramento Directory Co. Publishers |
| 1957        | Marion Nolan R w a | Sacramento Directory Co.            |
| 1952        | Burcham L T        | Sacramento Directory Co.            |
| 1947        | Hamilton C V       | Sacramento Directory Co.            |

### 990 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>         | <u>Source</u>                       |
|-------------|---------------------|-------------------------------------|
| 2020        | DAVID TY            | EDR Digital Archive                 |
|             | VINHPHUC NGUYEN     | EDR Digital Archive                 |
| 2014        | OCCUPANT UNKNOWN    | Cole Information                    |
| 2005        | POONJasbir          | Haines Company, Inc.                |
|             | OCCUPANT UNKNOWN    | Cole Information                    |
| 2000        | C SANDOVAL          | Cole Information                    |
| 1980        | Deatfino Joxce Mrs  | R. L. Polk & Co.                    |
| 1975        | Destfino Frank J    | R. L. Polk & Co.                    |
| 1970        | Destfino Frank J    | Sacramento Directory Co.            |
| 1965        | Destifino Frank O W | Sacramento Directory Co. Publishers |
| 1957        | Destifino Frank Co  | Sacramento Directory Co.            |
| 1952        | Destfino Frank      | Sacramento Directory Co.            |
| 1947        | Destfino Frank      | Sacramento Directory Co.            |
| 1942        | Destafino Frank     | Sacramento Directory Co.            |

### 991 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>          | <u>Source</u>            |
|-------------|----------------------|--------------------------|
| 1957        | Eankins Warren L w a | Sacramento Directory Co. |

## FINDINGS

### 995 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>                  | <u>Source</u>                       |
|-------------|------------------------------|-------------------------------------|
| 2020        | SONYA CARO                   | EDR Digital Archive                 |
|             | MIGUEL CARO                  | EDR Digital Archive                 |
| 2017        | DENNETTE WILLIAMS            | Cole Information                    |
| 2014        | SHANECO ARRINGTON            | Cole Information                    |
| 2010        | DENNETTE WILLIAMS            | Cole Information                    |
| 2005        | SCAROMiguel WILLi AMS Dnnene | Haines Company, Inc.                |
|             | DENNETTE WILLIAMS            | Cole Information                    |
| 2000        | ALLEN HARRIS                 | Cole Information                    |
| 1999        | ALBERTY Denna                | Haines & Company                    |
| 1995        | OCCUPANT UNKNOWN             | Cole Information                    |
| 1992        | MILLER, LEE J                | Cole Information                    |
| 1980        | Vacant                       | R. L. Polk & Co.                    |
| 1970        | Brazell Charles W            | Sacramento Directory Co.            |
| 1965        | Brazell Chas W 0 W           | Sacramento Directory Co. Publishers |
| 1957        | Boden Lloyd E w a            | Sacramento Directory Co.            |
| 1952        | Moore D K                    | Sacramento Directory Co.            |
| 1947        | Harold F M                   | Sacramento Directory Co.            |

### 996 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>       | <u>Source</u>    |
|-------------|-------------------|------------------|
| 1975        | Brazell Charles W | R. L. Polk & Co. |

### 997 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>          | <u>Source</u>                       |
|-------------|----------------------|-------------------------------------|
| 2014        | OCCUPANT UNKNOWN     | Cole Information                    |
| 1999        | XXXX                 | Haines & Company                    |
|             | TINLOY Gregory       | Haines & Company                    |
| 1980        | Vacant               | R. L. Polk & Co.                    |
| 1975        | Brazell Robt         | R. L. Polk & Co.                    |
| 1970        | Turner Judy Mrs      | Sacramento Directory Co.            |
| 1965        | Turknett Rosetta Mrs | Sacramento Directory Co. Publishers |
| 1952        | Vacant               | Sacramento Directory Co.            |
| 1947        | Vinz Peter           | Sacramento Directory Co.            |

## FINDINGS

### 999 ARCADE BLVD

| <u>Year</u> | <u>Uses</u>        | <u>Source</u>        |
|-------------|--------------------|----------------------|
| 2020        | BRYAN WHITED       | EDR Digital Archive  |
|             | CHRISTI WHITED     | EDR Digital Archive  |
|             | TYRONE BARNES      | EDR Digital Archive  |
| 2017        | ANNIE HARRIS       | Cole Information     |
|             | SHOEMAKE LAURA     | Cole Information     |
|             | RICHELLE WINEGAR   | Cole Information     |
|             | PAULINE WASHINGTON | Cole Information     |
| 2014        | ANNIE HARRIS       | Cole Information     |
|             | ALICIA MARSHALL    | Cole Information     |
|             | CHARLES MONEY      | Cole Information     |
|             | DERRICK CUNNINGHAM | Cole Information     |
| 2010        | ANNIE HARRIS       | Cole Information     |
|             | JERMAIN RANDLE     | Cole Information     |
|             | RICHELLE WINEGAR   | Cole Information     |
|             | ROMAN WARNER       | Cole Information     |
| 2005        | i HARISAnnie       | Haines Company, Inc. |
|             | SCOTTJe Srey       | Haines Company, Inc. |
|             | DAVID DOMANTAS     | Cole Information     |
|             | ANNIE HARRIS       | Cole Information     |
|             | KATINA BELVINS     | Cole Information     |
|             | CARMEN COOK        | Cole Information     |
|             | C CONCEPION        | Cole Information     |
| 2000        | D WOLDRIDGE        | Cole Information     |
| 1999        | BAKER Fred         | Haines & Company     |
|             | GILBREA TH Audra   | Haines & Company     |
|             | JACKSON Kumika     | Haines & Company     |
| 1995        | OCCUPANT UNKNOWNN  | Cole Information     |
| 1980        | Api tmens          | R. L. Polk & Co.     |
|             | Chiave 7 Mai ia    | R. L. Polk & Co.     |
|             | Gai cia Cailos     | R. L. Polk & Co.     |
|             | Wommack Scott      | R. L. Polk & Co.     |

## FINDINGS

| <u>Year</u> | <u>Uses</u>            | <u>Source</u>                       |
|-------------|------------------------|-------------------------------------|
| 1980        | Garcia Louis           | R. L. Polk & Co.                    |
|             | Scoggins S             | R. L. Polk & Co.                    |
|             | Wilson Kathleen        | R. L. Polk & Co.                    |
| 1975        | Apartments             | R. L. Polk & Co.                    |
|             | Locke Gary             | R. L. Polk & Co.                    |
|             | Nesa Betty             | R. L. Polk & Co.                    |
|             | Cleveland Mary E       | R. L. Polk & Co.                    |
|             | Hopper Brian           | R. L. Polk & Co.                    |
|             | Leadakos John          | R. L. Polk & Co.                    |
|             | Carabasal Shirley      | R. L. Polk & Co.                    |
| 1970        | Apartments             | Sacramento Directory Co.            |
|             | Gully Jerimia          | Sacramento Directory Co.            |
|             | No Return              | Sacramento Directory Co.            |
|             | Woodworker Dorothy Mrs | Sacramento Directory Co.            |
|             | Van Vliet Frank L      | Sacramento Directory Co.            |
|             | Bennett John W         | Sacramento Directory Co.            |
|             | Mulder Kath            | Sacramento Directory Co.            |
| 1965        | Apartments             | Sacramento Directory Co. Publishers |
|             | Davis Mike             | Sacramento Directory Co. Publishers |
|             | Green John E           | Sacramento Directory Co. Publishers |
|             | Hendricks Haven D      | Sacramento Directory Co. Publishers |
|             | Mullen Frank V         | Sacramento Directory Co. Publishers |
|             | Vacant                 | Sacramento Directory Co. Publishers |
|             | Hare Jerry W           | Sacramento Directory Co. Publishers |
| 1957        | Mitchell Lorenzo B     | Sacramento Directory Co.            |
| 1952        | Mitchell L B           | Sacramento Directory Co.            |
| 1947        | AMitchell IL B         | Sacramento Directory Co.            |
| 1942        | Mitchell L B           | Sacramento Directory Co.            |

## FINDINGS

### **BRANCH ST**

#### **3151 BRANCH ST**

| <b><u>Year</u></b> | <b><u>Uses</u></b>    | <b><u>Source</u></b>                |
|--------------------|-----------------------|-------------------------------------|
| 2020               | ISAIAH BOSLEY         | EDR Digital Archive                 |
| 2017               | ISAIAH BOSLEY         | Cole Information                    |
| 2014               | MAGGIE LU             | Cole Information                    |
| 2005               | BRUNORegina           | Haines Company, Inc.                |
|                    | OCORPUSA nge lo       | Haines Company, Inc.                |
|                    | REGINA BRUNO          | Cole Information                    |
| 2000               | OCCUPANT UNKNOWN      | Cole Information                    |
| 1999               | WALKER Johnnie        | Haines & Company                    |
| 1980               | Peters Benny C        | R. L. Polk & Co.                    |
| 1975               | Peters Benny C        | R. L. Polk & Co.                    |
| 1965               | Peters Mitsue         | Sacramento Directory Co. Publishers |
| 1961               | Smith Richd W S w a   | Sacramento Directory Co.            |
| 1957               | Seiginan Theo A 2 w a | Sacramento Directory Co.            |
|                    | Bacon Barbara Mrs w a | Sacramento Directory Co.            |

#### **3160 BRANCH ST**

| <b><u>Year</u></b> | <b><u>Uses</u></b>  | <b><u>Source</u></b>                |
|--------------------|---------------------|-------------------------------------|
| 1999               | HARRIS Marion       | Haines & Company                    |
| 1995               | HARRIS Saml E       | Pacific Bell                        |
| 1991               | Harris Saml E       | Pacific Bell                        |
| 1980               | Harris Sami E       | R. L. Polk & Co.                    |
| 1975               | Harris Sami E       | R. L. Polk & Co.                    |
| 1965               | Harris Saml E 0 W   | Sacramento Directory Co. Publishers |
| 1961               | Harris Sami E Sw a  | Sacramento Directory Co.            |
| 1957               | Harris Saml E 2 t W | Sacramento Directory Co.            |

#### **3161 BRANCH ST**

| <b><u>Year</u></b> | <b><u>Uses</u></b> | <b><u>Source</u></b> |
|--------------------|--------------------|----------------------|
| 2020               | JERRY HADDIX       | EDR Digital Archive  |
|                    | LENA HADDIX        | EDR Digital Archive  |
|                    | FIONA YOUNG        | EDR Digital Archive  |

## FINDINGS

| <u>Year</u> | <u>Uses</u>                  | <u>Source</u>                       |
|-------------|------------------------------|-------------------------------------|
| 2020        | TONYA HADDIX                 | EDR Digital Archive                 |
|             | TAMMIE HADDIX                | EDR Digital Archive                 |
| 2017        | JERRY HADDIX                 | Cole Information                    |
| 2014        | JERRY HADDIX                 | Cole Information                    |
| 2010        | OCCUPANT UNKNOWN             | Cole Information                    |
| 2005        | 1 LINOSEY Charles PARK Allen | Haines Company, Inc.                |
|             | ALLEN PARK                   | Cole Information                    |
| 2000        | OCCUPANT UNKNOWN             | Cole Information                    |
| 1999        | LINDSEY Charles              | Haines & Company                    |
|             | PIERCE Kristina              | Haines & Company                    |
| 1995        | KINGHORN, KARLA              | Cole Information                    |
| 1991        | Volpe Rosie                  | Pacific Bell                        |
| 1980        | ir Lindsey Steph             | R. L. Polk & Co.                    |
| 1975        | Simunek Rudolf F             | R. L. Polk & Co.                    |
| 1965        | Simenek Rudy F               | Sacramento Directory Co. Publishers |
| 1961        | Siimunek Rudy F S w a        | Sacramento Directory Co.            |
| 1957        | Simunek Rudy F               | Sacramento Directory Co.            |

### 3170 BRANCH ST

| <u>Year</u> | <u>Uses</u>           | <u>Source</u>                       |
|-------------|-----------------------|-------------------------------------|
| 2005        | FERNANDES Justeno     | Haines Company, Inc.                |
| 1999        | FERNANDES Justeno     | Haines & Company                    |
| 1995        | FERNANDES Justeno     | Pacific Bell                        |
| 1991        | Fernandes Justeno     | Pacific Bell                        |
| 1980        | Fernandes Justeno     | R. L. Polk & Co.                    |
| 1975        | Fernandes Justino     | R. L. Polk & Co.                    |
| 1965        | Bellato Richd L       | Sacramento Directory Co. Publishers |
| 1961        | Bellato Richd L S w a | Sacramento Directory Co.            |
| 1957        | Bellato Richd L C w a | Sacramento Directory Co.            |

### 3171 BRANCH ST

| <u>Year</u> | <u>Uses</u>     | <u>Source</u>       |
|-------------|-----------------|---------------------|
| 2020        | RICK RAVELLA    | EDR Digital Archive |
| 2017        | RICHARD RAVELLA | Cole Information    |

## FINDINGS

| <u>Year</u> | <u>Uses</u>       | <u>Source</u>                       |
|-------------|-------------------|-------------------------------------|
| 2014        | WILLIAM LANE      | Cole Information                    |
| 2010        | CHRISTINA MCCANTS | Cole Information                    |
| 2005        | WESTLenard        | Haines Company, Inc.                |
|             | LENARD WEST       | Cole Information                    |
| 2000        | OCCUPANT UNKNOWN  | Cole Information                    |
| 1999        | WEST Lenard       | Haines & Company                    |
| 1995        | WEST, LENARD D    | Cole Information                    |
| 1980        | West Leonard D    | R. L. Polk & Co.                    |
| 1975        | West Leonard D    | R. L. Polk & Co.                    |
| 1965        | Davis Dale 0 W    | Sacramento Directory Co. Publishers |
| 1961        | Davis Dale S      | Sacramento Directory Co.            |
| 1957        | Davis Dale C      | Sacramento Directory Co.            |

### 3180 BRANCH ST

| <u>Year</u> | <u>Uses</u>                | <u>Source</u>                       |
|-------------|----------------------------|-------------------------------------|
| 2005        | HARRIS Mar Ion 9r          | Haines Company, Inc.                |
| 1980        | Silva Louis T              | R. L. Polk & Co.                    |
| 1975        | Silva Louis T              | R. L. Polk & Co.                    |
| 1965        | Dunisch Paul R W           | Sacramento Directory Co. Publishers |
| 1961        | Dunisch Paul H S AWAS 8202 | Sacramento Directory Co.            |
| 1957        | Dunisch Paul R 2 w a       | Sacramento Directory Co.            |

### 3181 BRANCH ST

| <u>Year</u> | <u>Uses</u>       | <u>Source</u>        |
|-------------|-------------------|----------------------|
| 2020        | SALVADOR PASILLAS | EDR Digital Archive  |
|             | SANTIAGO TEJEDA   | EDR Digital Archive  |
| 2017        | SALVADOR PASILLAS | Cole Information     |
| 2014        | SALVADOR PASILLAS | Cole Information     |
| 2010        | OCCUPANT UNKNOWN  | Cole Information     |
| 2005        | OTEJEDA Santiago  | Haines Company, Inc. |
|             | OCCUPANT UNKNOWN  | Cole Information     |
| 1999        | PIERCE Kristina   | Haines & Company     |
|             | TEJEDA Santiago   | Haines & Company     |
|             | PIERCE Kristina   | Haines & Company     |

## FINDINGS

| <u>Year</u> | <u>Uses</u>         | <u>Source</u>                       |
|-------------|---------------------|-------------------------------------|
| 1980        | Ishisaka Johnny M   | R. L. Polk & Co.                    |
| 1975        | Sigrist Frank A     | R. L. Polk & Co.                    |
| 1965        | Sigrist Frank A     | Sacramento Directory Co. Publishers |
| 1961        | Osman Francis W w a | Sacramento Directory Co.            |
| 1957        | Osman Francis W     | Sacramento Directory Co.            |

### 3191 BRANCH ST

| <u>Year</u> | <u>Uses</u>      | <u>Source</u>        |
|-------------|------------------|----------------------|
| 2017        | JENNIFER MERRITT | Cole Information     |
| 2014        | OCCUPANT UNKNOWN | Cole Information     |
| 2010        | JANET BUSH       | Cole Information     |
| 2005        | URIZARTimothy    | Haines Company, Inc. |
|             | TIMOTHY URIZAR   | Cole Information     |

### EVANS

#### 800 EVANS

| <u>Year</u> | <u>Uses</u>         | <u>Source</u>                       |
|-------------|---------------------|-------------------------------------|
| 1965        | Mahorney Jay W      | Sacramento Directory Co. Publishers |
| 1961        | Taylor Chas F 0 w a | Sacramento Directory Co.            |
| 1957        | Taylor Chas F 4 W   | Sacramento Directory Co.            |

#### 804 EVANS

| <u>Year</u> | <u>Uses</u>         | <u>Source</u>                       |
|-------------|---------------------|-------------------------------------|
| 1965        | Erickson Lester E   | Sacramento Directory Co. Publishers |
| 1961        | Toper Fred          | Sacramento Directory Co.            |
| 1957        | Scriven Larry L w a | Sacramento Directory Co.            |

#### 808 EVANS

| <u>Year</u> | <u>Uses</u>        | <u>Source</u>                       |
|-------------|--------------------|-------------------------------------|
| 1965        | Roybal Joan M Mrs  | Sacramento Directory Co. Publishers |
| 1961        | Cook Donald F      | Sacramento Directory Co.            |
| 1957        | Itiuble Jean L w a | Sacramento Directory Co.            |

## FINDINGS

### 817 EVANS

| <u>Year</u> | <u>Uses</u>           | <u>Source</u>                       |
|-------------|-----------------------|-------------------------------------|
| 1991        | Thosychanh Many       | Pacific Bell                        |
| 1965        | Schnell Harry C       | Sacramento Directory Co. Publishers |
| 1961        | Schnell Harry C w a   | Sacramento Directory Co.            |
| 1957        | Schnell Harry C 0 w a | Sacramento Directory Co.            |

### EVANS ST

#### 800 EVANS ST

| <u>Year</u> | <u>Uses</u>          | <u>Source</u>            |
|-------------|----------------------|--------------------------|
| 2020        | KATIE SYMONS         | EDR Digital Archive      |
| 2017        | KATIE SYMONS         | Cole Information         |
| 2014        | NICOLE BRIGGS        | Cole Information         |
| 2010        | TELITHA FLOYD        | Cole Information         |
| 2005        | NONHPRASITH          | Haines Company, Inc.     |
|             | Sangvane             | Haines Company, Inc.     |
|             | SANGVANE NONHPRASITH | Cole Information         |
| 1980        | Avad Rose            | R. L. Polk & Co.         |
| 1975        | Matthew s James E    | R. L. Polk & Co.         |
| 1970        | Vacant               | Sacramento Directory Co. |

#### 804 EVANS ST

| <u>Year</u> | <u>Uses</u>       | <u>Source</u>            |
|-------------|-------------------|--------------------------|
| 2020        | DIXIE CASCARELLA  | EDR Digital Archive      |
|             | CEDRIC CASCARELLA | EDR Digital Archive      |
| 2017        | DIXIE PAGE        | Cole Information         |
| 2014        | MARIO BURTON      | Cole Information         |
| 2010        | MARIO BURTON      | Cole Information         |
| 2005        | BURTONMario       | Haines Company, Inc.     |
|             | MARIO BURTON      | Cole Information         |
| 1980        | Cook Donna P      | R. L. Polk & Co.         |
| 1975        | Campbell Albert A | R. L. Polk & Co.         |
| 1970        | No Return         | Sacramento Directory Co. |

## FINDINGS

### 808 EVANS ST

| <u>Year</u> | <u>Uses</u>         | <u>Source</u>            |
|-------------|---------------------|--------------------------|
| 2020        | CASCARELLA DOMINICK | EDR Digital Archive      |
|             | CASCARELLA PATRICIA | EDR Digital Archive      |
| 2017        | CEDRIC CASCARELLA   | Cole Information         |
| 2014        | CEDRIC CASCARELLA   | Cole Information         |
| 1980        | Cascarella Dominick | R. L. Polk & Co.         |
| 1975        | Davey Wm H          | R. L. Polk & Co.         |
| 1970        | Vacant              | Sacramento Directory Co. |

### 811 EVANS ST

| <u>Year</u> | <u>Uses</u> | <u>Source</u>       |
|-------------|-------------|---------------------|
| 2020        | RONALD ROY  | EDR Digital Archive |
| 2017        | RONALD ROY  | Cole Information    |
| 2014        | VIJAY SINGH | Cole Information    |
| 2010        | VIJAY SINGH | Cole Information    |

### 817 EVANS ST

| <u>Year</u> | <u>Uses</u>     | <u>Source</u>            |
|-------------|-----------------|--------------------------|
| 2020        | SUNDEEP ATHWAL  | EDR Digital Archive      |
| 2017        | SUNDEEP ATHWAL  | Cole Information         |
| 2014        | ERYNN STEVENSON | Cole Information         |
| 2010        | NELSON GEIGER   | Cole Information         |
| 2005        | SHARMAAai 00co  | Haines Company, Inc.     |
|             | NELSON GEIGER   | Cole Information         |
| 1992        | THOSYCHANH, S   | Cole Information         |
| 1980        | Pugh Dorothy    | R. L. Polk & Co.         |
| 1975        | Davies Arth L   | R. L. Polk & Co.         |
| 1970        | Schnell Harry C | Sacramento Directory Co. |

### OPAL LN

### 937 OPAL LN

| <u>Year</u> | <u>Uses</u>    | <u>Source</u>       |
|-------------|----------------|---------------------|
| 2020        | NATALIE MADRIZ | EDR Digital Archive |
| 2014        | FRANZ ESPINOZA | Cole Information    |

## FINDINGS

| <u>Year</u> | <u>Uses</u>    | <u>Source</u>    |
|-------------|----------------|------------------|
| 2010        | NATALIE MADRIZ | Cole Information |

### 950 OPAL LN

| <u>Year</u> | <u>Uses</u>   | <u>Source</u>        |
|-------------|---------------|----------------------|
| 2020        | ALVARO MEDINA | EDR Digital Archive  |
|             | ARICELIA LEON | EDR Digital Archive  |
| 2017        | ALMA VASQUEZ  | Cole Information     |
| 2014        | ALMA VASQUEZ  | Cole Information     |
| 2010        | ALMA VASQUEZ  | Cole Information     |
| 2005        | MEDINAAlvaro  | Haines Company, Inc. |
| 2000        | ALVARO MEDINA | Cole Information     |
| 1999        | XXXX          | Haines & Company     |

### 951 OPAL LN

| <u>Year</u> | <u>Uses</u>     | <u>Source</u>            |
|-------------|-----------------|--------------------------|
| 2020        | NATALIE MADRIZ  | EDR Digital Archive      |
| 2014        | WALTER ESPINOZA | Cole Information         |
| 2010        | WALTER ESPINOZA | Cole Information         |
| 2005        | ESPINOZA Franz  | Haines Company, Inc.     |
| 2000        | R COOPER        | Cole Information         |
| 1999        | YEO Jeffery     | Haines & Company         |
| 1995        | ZAFRA, JUDI     | Cole Information         |
| 1970        | Caeser Wesley K | Sacramento Directory Co. |

### 960 OPAL LN

| <u>Year</u> | <u>Uses</u>      | <u>Source</u>        |
|-------------|------------------|----------------------|
| 2020        | TYLER EDWARDS    | EDR Digital Archive  |
|             | ERIN EDWARDS     | EDR Digital Archive  |
|             | AMANDA EDWARDS   | EDR Digital Archive  |
|             | KEITH MALLONEE   | EDR Digital Archive  |
| 2017        | FRANCISCO MARTIN | Cole Information     |
| 2014        | MONICA SOTO      | Cole Information     |
| 2010        | KEITH MALLONEE   | Cole Information     |
| 2005        | FUKATSCHJullus   | Haines Company, Inc. |

## FINDINGS

| <u>Year</u> | <u>Uses</u>         | <u>Source</u>            |
|-------------|---------------------|--------------------------|
| 2005        | JULIUS FUKATSCH     | Cole Information         |
| 2000        | OCCUPANT UNKNOWN    | Cole Information         |
| 1999        | TREADWELL Patrick   | Haines & Company         |
| 1995        | GAMBLIN Christian F | Pacific Bell             |
|             | GAMBLIN, CHRISTI F  | Cole Information         |
| 1970        | Goble John          | Sacramento Directory Co. |

### 961 OPAL LN

| <u>Year</u> | <u>Uses</u>      | <u>Source</u>        |
|-------------|------------------|----------------------|
| 2017        | NATALIE MADRIZ   | Cole Information     |
| 2010        | OCCUPANT UNKNOWN | Cole Information     |
| 2005        | ESPINOZA Franz   | Haines Company, Inc. |
|             | JOAQUIN LUJANO   | Cole Information     |
| 2000        | SHARA HOOVER     | Cole Information     |
| 1999        | WALKER Johnnie   | Haines & Company     |
| 1995        | LOPEZ, CESAR     | Cole Information     |

### 963 OPAL LN

| <u>Year</u> | <u>Uses</u>      | <u>Source</u>        |
|-------------|------------------|----------------------|
| 2010        | CECILIA MAIRANDA | Cole Information     |
| 2005        | XXXX             | Haines Company, Inc. |
|             | OCCUPANT UNKNOWN | Cole Information     |
| 1999        | XXXX             | Haines & Company     |
| 1995        | GUZMAN, JULIAN   | Cole Information     |

### 974 OPAL LN

| <u>Year</u> | <u>Uses</u>   | <u>Source</u>        |
|-------------|---------------|----------------------|
| 2020        | ARK VAN       | EDR Digital Archive  |
|             | MAURO SANCHEZ | EDR Digital Archive  |
| 2017        | ANGELO CORPUS | Cole Information     |
| 2014        | ANGELO CORPUS | Cole Information     |
| 2010        | BILL TEED     | Cole Information     |
| 2005        | CORPUS Angelo | Haines Company, Inc. |
|             | ANGELO CORPUS | Cole Information     |

## FINDINGS

| <u>Year</u> | <u>Uses</u>      | <u>Source</u>            |
|-------------|------------------|--------------------------|
| 2000        | ANGELO CORPUS    | Cole Information         |
| 1999        | CORPUS Angelo    | Haines & Company         |
|             | GRICHUHIN Karyn  | Haines & Company         |
| 1995        | CORPUS, ANGELO V | Cole Information         |
| 1991        | Mc Essy Jason    | Pacific Bell             |
| 1970        | No Return        | Sacramento Directory Co. |

### **RIO LINDA BLVD**

#### **3104 RIO LINDA BLVD**

| <u>Year</u> | <u>Uses</u>  | <u>Source</u>  |
|-------------|--|--|
| 1965        | Vacant   | Sacramento Directory Co. Publishers  |
| 1957        | Turners Court w a<br>k Ferris Geo                          | Sacramento Directory Co.<br>Sacramento Directory Co.   |
| 1956        | Turners Court 4 W<br>Turner Mary K Mrs w a                 | Sacramento Directory Co.<br>Sacramento Directory Co.   |
| 1952        | Turners Court<br>Frazier E W<br>Keithley C L<br>Turner F K | Sacramento Directory Co.<br>Sacramento Directory Co.<br>Sacramento Directory Co.<br>Sacramento Directory Co. |
| 1947        | Turners Court<br>Marsh Sofia Mrs<br>ATurner F K Y          | Sacramento Directory Co.<br>Sacramento Directory Co.<br>Sacramento Directory Co.                             |
| 1942        | Turner F K   | Sacramento Directory Co.   |

#### **3108 RIO LINDA BLVD**

| <u>Year</u> | <u>Uses</u>                        | <u>Source</u>                            |
|-------------|------------------------------------|--|
| 2020        | FRANZ ESPINOZA                     | EDR Digital Archive                      |
| 2017        | FRANZ MADRIZ                       | Cole Information                         |
| 2014        | FRANZ MADRIZ                       | Cole Information                         |
| 2010        | MADRIZ NATALIE                     | Cole Information                         |
| 2005        | SESPINOZA Fraz<br>OCCUPANT UNKNOWN | Haines Company, Inc.<br>Cole Information |
| 2000        | JESS MONARREZ                      | Cole Information                         |

## FINDINGS

| <u>Year</u> | <u>Uses</u>          | <u>Source</u>                       |
|-------------|----------------------|-------------------------------------|
| 1999        | MONARREZ Jess        | Haines & Company                    |
| 1995        | MONARREZ Jess        | Pacific Bell                        |
|             | MONARREZ, JESS       | Cole Information                    |
| 1992        | MONARREZ, JESS       | Cole Information                    |
| 1991        | Monarrez Jess        | Pacific Bell                        |
| 1980        | Monarrez Jess P      | R. L. Polk & Co.                    |
| 1970        | Hammond Frank H      | Sacramento Directory Co.            |
| 1965        | Hammond Frank H      | Sacramento Directory Co. Publishers |
| 1961        | Hammond Frank H      | Sacramento Directory Co.            |
| 1957        | Hammond Frank H      | Sacramento Directory Co.            |
| 1956        | Hammond Frank H      | Sacramento Directory Co.            |
| 1952        | Hammond F H          | Sacramento Directory Co.            |
| 1947        | Whiteside Jennie Mrs | Sacramento Directory Co.            |
| 1942        | Whiteside Jennie     | Sacramento Directory Co.            |

### 3117 RIO LINDA BLVD

| <u>Year</u> | <u>Uses</u>      | <u>Source</u>    |
|-------------|------------------|------------------|
| 2010        | TIFFANIE DRUMMER | Cole Information |
| 2005        | TIFFANIE DRUMMER | Cole Information |

### 3125 RIO LINDA BLVD

| <u>Year</u> | <u>Uses</u>        | <u>Source</u>                       |
|-------------|--------------------|-------------------------------------|
| 2017        | MARY SAKHONE       | Cole Information                    |
| 2014        | OCCUPANT UNKNOWN   | Cole Information                    |
| 2005        | XXXX               | Haines Company, Inc.                |
|             | KIMBERLY DUNCAN    | Cole Information                    |
| 2000        | OCCUPANT UNKNOWN   | Cole Information                    |
| 1999        | FLOYD Kathy L      | Haines & Company                    |
| 1980        | Rice Archie        | R. L. Polk & Co.                    |
| 1975        | AHyden James       | R. L. Polk & Co.                    |
| 1970        | Carrol Alice H Mrs | Sacramento Directory Co.            |
| 1965        | Wheat Fanny Mrs    | Sacramento Directory Co. Publishers |

## FINDINGS

### 3127 RIO LINDA BLVD

| <u>Year</u> | <u>Uses</u>                     | <u>Source</u>                       |
|-------------|---------------------------------|-------------------------------------|
| 2020        | AWAIS KHAN                      | EDR Digital Archive                 |
| 2017        | HEATHER OSTRANDER               | Cole Information                    |
| 2014        | ROSA GARCIA                     | Cole Information                    |
| 2010        | MARTHA MENERA                   | Cole Information                    |
| 2005        | JACKSON William                 | Haines Company, Inc.                |
|             | DAVID FIJALKA                   | Cole Information                    |
| 1999        | KOESTER Wilbur                  | Haines & Company                    |
|             | GUZMAN Gerardo Arellano         | Haines & Company                    |
| 1995        | BONGARD, P                      | Cole Information                    |
| 1980        | Rice Sue                        | R. L. Polk & Co.                    |
| 1975        | Galarneau Louise M              | R. L. Polk & Co.                    |
| 1970        | Farncomb Robt R                 | Sacramento Directory Co.            |
| 1965        | Styles lugh F W                 | Sacramento Directory Co. Publishers |
| 1961        | Vacant rear Woolsey Bobby E w a | Sacramento Directory Co.            |
| 1957        | Oscarson Frank E                | Sacramento Directory Co.            |
| 1956        | Oscarson Frank E                | Sacramento Directory Co.            |
| 1952        | Hayes J H                       | Sacramento Directory Co.            |
|             | Oscarson F E                    | Sacramento Directory Co.            |
| 1947        | AStilman C E Mrs Y              | Sacramento Directory Co.            |
| 1942        | Vacant                          | Sacramento Directory Co.            |

### 3130 RIO LINDA BLVD

| <u>Year</u> | <u>Uses</u>                           | <u>Source</u>            |
|-------------|---------------------------------------|--------------------------|
| 2005        | WALTER ESPINOZA                       | Cole Information         |
| 1999        | XXXX                                  | Haines & Company         |
| 1995        | OCCUPANT UNKNOWNN                     | Cole Information         |
| 1991        | Appliance World                       | Pacific Bell             |
| 1980        | Petty Appliances household appliances | R. L. Polk & Co.         |
| 1975        | Glorias Sw ap Shop                    | R. L. Polk & Co.         |
| 1970        | No Return                             | Sacramento Directory Co. |

## FINDINGS

### 3133 RIO LINDA BLVD

| <u>Year</u> | <u>Uses</u>           | <u>Source</u>                       |
|-------------|-----------------------|-------------------------------------|
| 2020        | ARTURO MUNOZ          | EDR Digital Archive                 |
| 2017        | BECKY BAKER           | Cole Information                    |
| 2014        | ARTURO MUNOZ          | Cole Information                    |
| 2010        | ARTURO MUNOZ          | Cole Information                    |
| 2005        | MUNOZArturo Jr        | Haines Company, Inc.                |
| 2000        | OCCUPANT UNKNOWN      | Cole Information                    |
| 1999        | HAUSCHILDT Arthur     | Haines & Company                    |
| 1995        | OCCUPANT UNKNOWN      | Cole Information                    |
| 1980        | Garza Marion B Mrs    | R. L. Polk & Co.                    |
| 1975        | Zeller Alma Mrs       | R. L. Polk & Co.                    |
| 1970        | Johnson Carl          | Sacramento Directory Co.            |
| 1965        | Cooper Anna C Mrs W   | Sacramento Directory Co. Publishers |
| 1961        | Folkenstad Milton w a | Sacramento Directory Co.            |
| 1957        | Vacant                | Sacramento Directory Co.            |
| 1956        | Bousliman Geo w a     | Sacramento Directory Co.            |
| 1952        | Vacant                | Sacramento Directory Co.            |
| 1947        | AStarr J G            | Sacramento Directory Co.            |
| 1942        | Starr J G             | Sacramento Directory Co.            |

### 3135 RIO LINDA BLVD

| <u>Year</u> | <u>Uses</u>       | <u>Source</u>        |
|-------------|-------------------|----------------------|
| 2020        | STEPHEN WILLIAMS  | EDR Digital Archive  |
|             | AURIELLE WILLIAMS | EDR Digital Archive  |
|             | DEBRA WILLIAMS    | EDR Digital Archive  |
| 2017        | STEVEN WILLIAMS   | Cole Information     |
| 2014        | STEVEN WILLIAMS   | Cole Information     |
| 2005        | ODUENSING Henry C | Haines Company, Inc. |
|             | HENRY DUENSING    | Cole Information     |
| 2000        | HENRY DUENSING    | Cole Information     |
| 1999        | DUENSING Henry C  | Haines & Company     |
| 1995        | DUENSING Henry C  | Pacific Bell         |
|             | DUENSING, HENRY C | Cole Information     |

## FINDINGS

| <u>Year</u> | <u>Uses</u>                       | <u>Source</u>  |
|-------------|-----------------------------------|--|
| 1992        | DUENSING, HENRY C                 | Cole Information                                     |
| 1991        | Duensing Henry C                  | Pacific Bell   |
| 1980        | Duensing Heniy C                  | R. L. Polk & Co.                                     |
| 1975        | Duensing Henry C fun fnshr        | R. L. Polk & Co.                                     |
| 1970        | Duensing Henry C furn fnshr       | Sacramento Directory Co.                             |
| 1965        | Duensing Henry C furn fnshr W     | Sacramento Directory Co. Publishers                  |
| 1961        | Duensing Henry C furn<br>fnshr WA | Sacramento Directory Co.<br>Sacramento Directory Co. |
| 1957        | Duensing Henry C furn fnshr       | Sacramento Directory Co.                             |
| 1956        | Duensing Henry C                  | Sacramento Directory Co.                             |
| 1952        | Duensing H C                      | Sacramento Directory Co.                             |
| 1942        | &Beierle John                     | Sacramento Directory Co.                             |

### 3137 RIO LINDA BLVD

| <u>Year</u> | <u>Uses</u>                | <u>Source</u>  |
|-------------|----------------------------|--|
| 2020        | JAMES RODARAKIS            | EDR Digital Archive                                  |
| 2014        | OCCUPANT UNKNOWN           | Cole Information                                     |
| 2010        | OCCUPANT UNKNOWN           | Cole Information                                     |
| 1965        | No Return                  | Sacramento Directory Co. Publishers                  |
| 1961        | Cooper Anna Mrs w a        | Sacramento Directory Co.                             |
| 1957        | Jamnison Lloyd W<br>Vacant | Sacramento Directory Co.<br>Sacramento Directory Co. |
| 1956        | Mitchell Glen R w a        | Sacramento Directory Co.                             |
| 1952        | Vacant                     | Sacramento Directory Co.                             |
| 1947        | ABenson B R Y              | Sacramento Directory Co.                             |
| 1942        | Benson B R poultry         | Sacramento Directory Co.                             |

### 3139 RIO LINDA BLVD

| <u>Year</u> | <u>Uses</u>        | <u>Source</u>                       |
|-------------|--------------------|-------------------------------------|
| 1965        | Apartments         | Sacramento Directory Co. Publishers |
|             | No Return          | Sacramento Directory Co. Publishers |
|             | Psonas Beverly Mrs | Sacramento Directory Co. Publishers |
|             | No Return          | Sacramento Directory Co. Publishers |
|             | Weston Guy H       | Sacramento Directory Co. Publishers |

## FINDINGS

| <u>Year</u> | <u>Uses</u>                         | <u>Source</u>                       |
|-------------|-------------------------------------|-------------------------------------|
| 1965        | Hewitt Robt W                       | Sacramento Directory Co. Publishers |
|             | Morris Joanne Mrs                   | Sacramento Directory Co. Publishers |
|             | Smith Jean Mrs                      | Sacramento Directory Co. Publishers |
| 1961        | Apartments Aduson Elsa Mrs 4 W      | Sacramento Directory Co.            |
|             | Arens Oscar                         | Sacramento Directory Co.            |
|             | Olson Robin                         | Sacramento Directory Co.            |
|             | Vacant                              | Sacramento Directory Co.            |
|             | Weston Guy H                        | Sacramento Directory Co.            |
| 1957        | No Return                           | Sacramento Directory Co.            |
|             | Apartments                          | Sacramento Directory Co.            |
|             | Edy Delrner A                       | Sacramento Directory Co.            |
|             | Hankins Floyd                       | Sacramento Directory Co.            |
|             | Emerson Geo J                       | Sacramento Directory Co.            |
|             | Weston Guy H Addison Elsa L Mrs w a | Sacramento Directory Co.            |
| 1956        | Johnson Scott S w a                 | Sacramento Directory Co.            |
|             | Johnsons Mtr Courts                 | Sacramento Directory Co.            |
| 1952        | Johnson S S                         | Sacramento Directory Co.            |
|             | Nickles Edith Mrs                   | Sacramento Directory Co.            |
|             | Short O B                           | Sacramento Directory Co.            |
|             | Simpson B J                         | Sacramento Directory Co.            |
|             | White L F                           | Sacramento Directory Co.            |

### 3141 RIO LINDA BLVD

| <u>Year</u> | <u>Uses</u>             | <u>Source</u>            |
|-------------|-------------------------|--------------------------|
| 1999        | XXXX                    | Haines & Company         |
|             | GUZMAN Gerardo Arellano | Haines & Company         |
| 1970        | Apartments              | Sacramento Directory Co. |
|             | Sanderson John V        | Sacramento Directory Co. |
|             | Vacant                  | Sacramento Directory Co. |
|             | Vacant                  | Sacramento Directory Co. |
|             | Otto Edna               | Sacramento Directory Co. |
|             | Williams Ed             | Sacramento Directory Co. |
|             | Vacant                  | Sacramento Directory Co. |

## FINDINGS

| <u>Year</u> | <u>Uses</u>             | <u>Source</u>                       |
|-------------|-------------------------|-------------------------------------|
| 1970        | Vacant                  | Sacramento Directory Co.            |
|             | Doty Harold             | Sacramento Directory Co.            |
|             | No Return               | Sacramento Directory Co.            |
| 1965        | Lewis Richd A           | Sacramento Directory Co. Publishers |
|             | Davis Robt              | Sacramento Directory Co. Publishers |
|             | Chuck Carl B            | Sacramento Directory Co. Publishers |
|             | Thomas Geraldine Mrs    | Sacramento Directory Co. Publishers |
|             | Geyer Kenneth           | Sacramento Directory Co. Publishers |
|             | Marvel Donald           | Sacramento Directory Co. Publishers |
| 1961        | Apartments              | Sacramento Directory Co.            |
|             | No Return               | Sacramento Directory Co.            |
|             | Monroe Chas             | Sacramento Directory Co.            |
|             | Vacant                  | Sacramento Directory Co.            |
|             | Castle Tommy            | Sacramento Directory Co.            |
|             | Reich Albert            | Sacramento Directory Co.            |
|             | Knowlton Paul           | Sacramento Directory Co.            |
|             | Noland Elsworth M 0 4 W | Sacramento Directory Co.            |
| 1957        | Nolans Court wa         | Sacramento Directory Co.            |
|             | Apartments              | Sacramento Directory Co.            |
|             | Agiunid Alex            | Sacramento Directory Co.            |
|             | Monroe Chas             | Sacramento Directory Co.            |
|             | No Return               | Sacramento Directory Co.            |
|             | Contd                   | Sacramento Directory Co.            |
| 1956        | Nolans Court wa         | Sacramento Directory Co.            |
|             | Nolan Elsworth M        | Sacramento Directory Co.            |
|             | A WAS                   | Sacramento Directory Co.            |
| 1952        | Aguilar A C             | Sacramento Directory Co.            |
|             | Brand W B               | Sacramento Directory Co.            |
|             | Green Marjorie Mrs      | Sacramento Directory Co.            |
|             | Higginson C N           | Sacramento Directory Co.            |
|             | McCullough W H          | Sacramento Directory Co.            |
|             | Nolan E M               | Sacramento Directory Co.            |

## FINDINGS

| <u>Year</u> | <u>Uses</u> | <u>Source</u>            |
|-------------|-------------|--------------------------|
| 1952        | Rollins F L | Sacramento Directory Co. |
|             | Worshaw D H | Sacramento Directory Co. |
| 1947        | Booth W M   | Sacramento Directory Co. |
|             | Freer P R   | Sacramento Directory Co. |
|             | Sherman F V | Sacramento Directory Co. |

### 3201 RIO LINDA BLVD

| <u>Year</u> | <u>Uses</u>                    | <u>Source</u>                       |
|-------------|--------------------------------|-------------------------------------|
| 2020        | TURNING POINT EVANGELISTIC CTR | EDR Digital Archive                 |
|             | CONNIE DIAS                    | EDR Digital Archive                 |
| 2010        | NORTHERN SACRAMENTO MINISTER   | Cole Information                    |
|             | LEWIS HOPPER                   | Cole Information                    |
| 2005        | FULL GOSPEL MISSIONARY CHURCH  | Cole Information                    |
| 2000        | FULL GOSPEL MISSIONARY CHURCH  | Cole Information                    |
| 1999        | CONIGILO Philip                | Haines & Company                    |
|             | FULL GOSPEL MISSIONARY CHURCH  | Haines & Company                    |
| 1980        | Coniglo Zenna L Mrs            | R. L. Polk & Co.                    |
|             | Joes Place tavern              | R. L. Polk & Co.                    |
| 1975        | Coniglio Joseph                | R. L. Polk & Co.                    |
| 1970        | Coniglio Joseph                | Sacramento Directory Co.            |
| 1965        | Apartments Ertl Nicholas       | Sacramento Directory Co. Publishers |
|             | Luther Chas J                  | Sacramento Directory Co. Publishers |
|             | Roberts Billy C                | Sacramento Directory Co. Publishers |
|             | Vacant                         | Sacramento Directory Co. Publishers |
|             | Gress VA                       | Sacramento Directory Co. Publishers |
|             | Coniglio Joseph                | Sacramento Directory Co. Publishers |
|             | Marcum Jacqueline M Mrs        | Sacramento Directory Co. Publishers |
| 1961        | A a ents                       | Sacramento Directory Co.            |
|             | Christie Geo                   | Sacramento Directory Co.            |
| 1957        | Apartments                     | Sacramento Directory Co.            |
|             | Dillon Della P Mrs             | Sacramento Directory Co.            |
|             | Christie Geo                   | Sacramento Directory Co.            |
|             | Vacant                         | Sacramento Directory Co.            |

## FINDINGS

| <u>Year</u> | <u>Uses</u>         | <u>Source</u>            |
|-------------|---------------------|--------------------------|
| 1957        | Vacant              | Sacramento Directory Co. |
|             | Vacant              | Sacramento Directory Co. |
|             | Vaughn Wmi H        | Sacramento Directory Co. |
| 1952        | Christie G S        | Sacramento Directory Co. |
|             | rear Brown G E      | Sacramento Directory Co. |
| 1947        | O 14 Christie G S Y | Sacramento Directory Co. |
|             | rear Christie A G Y | Sacramento Directory Co. |
| 1942        | I Christie G S      | Sacramento Directory Co. |

### 3203 RIO LINDA BLVD

| <u>Year</u> | <u>Uses</u>       | <u>Source</u>       |
|-------------|-------------------|---------------------|
| 2020        | ZENNA CONIGLIO    | EDR Digital Archive |
|             | PATRICIA CONIGLIO | EDR Digital Archive |
|             | PHILIP CONIGLIO   | EDR Digital Archive |
| 2017        | YODER BEVERLY     | Cole Information    |
| 2014        | BARBARA BECKER    | Cole Information    |
|             | MARY BOUIE        | Cole Information    |
|             | DANY BORROWMAN    | Cole Information    |
|             | JACK VINSANT      | Cole Information    |
|             | MICHAEL HAMP      | Cole Information    |
|             | MCALPINE BRYAN    | Cole Information    |
|             | PHILIP CONIGLIO   | Cole Information    |
| 2010        | MARY BOUIE        | Cole Information    |
|             | LETICIA MARTINEZ  | Cole Information    |
|             | JANE HOBBS        | Cole Information    |
|             | PHILIP CONIGLIO   | Cole Information    |
| 2005        | V BENAVIDEZ       | Cole Information    |
|             | WILLIAM ROBINSON  | Cole Information    |
|             | PHILIP CONIGLIO   | Cole Information    |
|             | GRACIELA HUANACO  | Cole Information    |
| 2000        | DAVID MICHEL      | Cole Information    |
| 1999        | APPLE Kathleen    | Haines & Company    |
| 1995        | CAMACHO, LOUIS    | Cole Information    |

## FINDINGS

| <u>Year</u> | <u>Uses</u>        | <u>Source</u>            |
|-------------|--------------------|--------------------------|
| 1992        | WINTERS, LLOYD     | Cole Information         |
| 1980        | Apartments         | R. L. Polk & Co.         |
|             | Vacant             | R. L. Polk & Co.         |
|             | Paoli Dorothy      | R. L. Polk & Co.         |
|             | Vacant             | R. L. Polk & Co.         |
|             | Robeits Billy C    | R. L. Polk & Co.         |
|             | Conigho Phillip    | R. L. Polk & Co.         |
|             | Cress Vincent      | R. L. Polk & Co.         |
|             | H 11Rothgery David | R. L. Polk & Co.         |
| 1975        | Joes Place         | R. L. Polk & Co.         |
|             | Gress Vincent A    | R. L. Polk & Co.         |
|             | Wilson Jessie      | R. L. Polk & Co.         |
|             | Paoli Dorothy      | R. L. Polk & Co.         |
|             | Eatab Arth         | R. L. Polk & Co.         |
|             | Robert Billy C     | R. L. Polk & Co.         |
|             | Vacant             | R. L. Polk & Co.         |
| 1970        | Joes Place         | Sacramento Directory Co. |
|             | Wilson Jessie      | Sacramento Directory Co. |
|             | Roberts Billy C    | Sacramento Directory Co. |
|             | Me Clure Lawrence  | Sacramento Directory Co. |
|             | Epperle Adam       | Sacramento Directory Co. |
|             | Lynn Albert W      | Sacramento Directory Co. |

### 3211 RIO LINDA BLVD

| <u>Year</u> | <u>Uses</u>         | <u>Source</u>                       |
|-------------|---------------------|-------------------------------------|
| 1975        | Gibeau Jerald M     | R. L. Polk & Co.                    |
| 1970        | Tennerson Louis     | Sacramento Directory Co.            |
| 1965        | Tennerson Louis W   | Sacramento Directory Co. Publishers |
| 1961        | Tennerson Louis 4 W | Sacramento Directory Co.            |
| 1957        | Johnson Louis T w a | Sacramento Directory Co.            |
| 1952        | Tanner C L          | Sacramento Directory Co.            |
| 1947        | Ila Tanner C L Y    | Sacramento Directory Co.            |

## FINDINGS

### 3213 RIO LINDA BLVD

| <u>Year</u> | <u>Uses</u>           | <u>Source</u>                       |
|-------------|-----------------------|-------------------------------------|
| 1999        | XXXX                  | Haines & Company                    |
| 1980        | Sullivan Clifford     | R. L. Polk & Co.                    |
| 1975        | Vacant                | R. L. Polk & Co.                    |
| 1970        | Maphet Henry J        | Sacramento Directory Co.            |
| 1965        | Moe Jerry L           | Sacramento Directory Co. Publishers |
| 1961        | Urrutia Henry V 0 4 W | Sacramento Directory Co.            |
| 1957        | Urrutia Henry V w a   | Sacramento Directory Co.            |
| 1952        | Urrutia H V           | Sacramento Directory Co.            |
| 1947        | Urrutia H V Y         | Sacramento Directory Co.            |

### 3215 RIO LINDA BLVD

| <u>Year</u> | <u>Uses</u>          | <u>Source</u>                       |
|-------------|----------------------|-------------------------------------|
| 2020        | JASON SMITH          | EDR Digital Archive                 |
| 1999        | XXXX                 | Haines & Company                    |
| 1980        | Vacant               | R. L. Polk & Co.                    |
| 1975        | Bottles Charlotte    | R. L. Polk & Co.                    |
|             | Richardson Peter R   | R. L. Polk & Co.                    |
| 1970        | No Return            | Sacramento Directory Co.            |
|             | / Vacant             | Sacramento Directory Co.            |
| 1965        | Vacant               | Sacramento Directory Co. Publishers |
| 1961        | Vacant               | Sacramento Directory Co.            |
|             | Rovinsky Beverly Mrs | Sacramento Directory Co.            |
|             | Hendricks How ard    | Sacramento Directory Co.            |
| 1952        | Shaw C H             | Sacramento Directory Co.            |
|             | 1/2 Prosser D F      | Sacramento Directory Co.            |
| 1947        | Hare Lloyd           | Sacramento Directory Co.            |

### 3217 RIO LINDA BLVD

| <u>Year</u> | <u>Uses</u>     | <u>Source</u>       |
|-------------|-----------------|---------------------|
| 2020        | FABIOLA AGUIRRE | EDR Digital Archive |
| 2017        | FABIOLA AGUIRRE | Cole Information    |
|             | SARA HAYWOOD    | Cole Information    |
| 2014        | FABIOLA AGUIRRE | Cole Information    |

## FINDINGS

| <u>Year</u> | <u>Uses</u>              | <u>Source</u>                       |
|-------------|--------------------------|-------------------------------------|
| 2014        | CYNTHIA JUAREZ           | Cole Information                    |
| 2010        | LORENA VENTURA           | Cole Information                    |
|             | IVAN GONZALEZ            | Cole Information                    |
|             | NORMA BECERRA            | Cole Information                    |
|             | FABIOLA AGUIRRE          | Cole Information                    |
| 2005        | SOTOGenamro              | Haines Company, Inc.                |
|             | URIBE Amelia             | Haines Company, Inc.                |
|             | AMELIA URIBE             | Cole Information                    |
| 2000        | C MCDANIEL               | Cole Information                    |
|             | B SOLORIO                | Cole Information                    |
| 1999        | MCDANIEL C               | Haines & Company                    |
|             | MILLER Brian             | Haines & Company                    |
| 1980        | Apartments               | R. L. Polk & Co.                    |
|             | A Vacant                 | R. L. Polk & Co.                    |
|             | C Vacant                 | R. L. Polk & Co.                    |
|             | Vacant                   | R. L. Polk & Co.                    |
|             | Vacant                   | R. L. Polk & Co.                    |
|             | Jarvis Beulah Mrs        | R. L. Polk & Co.                    |
| 1975        | Jarvis Beulah            | R. L. Polk & Co.                    |
|             | A Kral Robin A           | R. L. Polk & Co.                    |
|             | B Johnson Steven         | R. L. Polk & Co.                    |
|             | C Miles Frank            | R. L. Polk & Co.                    |
|             | Gibb Frederick M         | R. L. Polk & Co.                    |
|             | Zigler Paul              | R. L. Polk & Co.                    |
|             | r Mc Carly Mike          | R. L. Polk & Co.                    |
| 1970        | Jarvis Beulah V Mrs      | Sacramento Directory Co.            |
|             | Hutt Pollie Mrs          | Sacramento Directory Co.            |
|             | Vacant                   | Sacramento Directory Co.            |
|             | Dubreuir Mike            | Sacramento Directory Co.            |
|             | A Vacant B Lottes John R | Sacramento Directory Co.            |
|             | C Vacant                 | Sacramento Directory Co.            |
| 1965        | Jarvis Beulah V Mrs      | Sacramento Directory Co. Publishers |

## FINDINGS

| <u>Year</u> | <u>Uses</u>        | <u>Source</u>            |
|-------------|--------------------|--------------------------|
| 1961        | Apartments         | Sacramento Directory Co. |
|             | Jarvis Peter J     | Sacramento Directory Co. |
|             | A Dean Bessie Mrs  | Sacramento Directory Co. |
|             | B Carlisle Clyde   | Sacramento Directory Co. |
|             | C Scott Mary L     | Sacramento Directory Co. |
|             | Vacant             | Sacramento Directory Co. |
|             | Keller Donald      | Sacramento Directory Co. |
|             | Hufsteller Ronald  | Sacramento Directory Co. |
| 1957        | Jarvis Peter J w a | Sacramento Directory Co. |
| 1952        | Vacant             | Sacramento Directory Co. |
|             | b Patterson Fred   | Sacramento Directory Co. |
| 1947        | Beale Roy          | Sacramento Directory Co. |
|             | AJarvis Peter Y    | Sacramento Directory Co. |
|             | Schroeder K A      | Sacramento Directory Co. |

### 3223 RIO LINDA BLVD

| <u>Year</u> | <u>Uses</u>   | <u>Source</u>        |
|-------------|---------------|----------------------|
| 2005        | ROBINSONWilam | Haines Company, Inc. |

### 3225 RIO LINDA BLVD

| <u>Year</u> | <u>Uses</u>       | <u>Source</u>                       |
|-------------|-------------------|-------------------------------------|
| 2020        | AJAY MAHARAJ      | EDR Digital Archive                 |
| 2017        | AJAY MAHARAJ      | Cole Information                    |
| 2014        | AJAY MAHARAJ      | Cole Information                    |
| 2010        | AJAY MAHARAJ      | Cole Information                    |
| 1999        | XXXX              | Haines & Company                    |
|             | MILLER Brian      | Haines & Company                    |
| 1975        | Riley Lucille     | R. L. Polk & Co.                    |
| 1970        | Morgan Jean V Mrs | Sacramento Directory Co.            |
| 1965        | Vacant            | Sacramento Directory Co. Publishers |
|             | Miles Don W       | Sacramento Directory Co. Publishers |
|             | Frund Dean        | Sacramento Directory Co. Publishers |
| 1961        | Apartments        | Sacramento Directory Co.            |
|             | Vacant            | Sacramento Directory Co.            |

## FINDINGS

| <u>Year</u> | <u>Uses</u>             | <u>Source</u>            |
|-------------|-------------------------|--------------------------|
| 1961        | Payte Benson            | Sacramento Directory Co. |
|             | Recknagle Elsie Mrs w a | Sacramento Directory Co. |
|             | Brew er Wm L            | Sacramento Directory Co. |
| 1957        | Apartments              | Sacramento Directory Co. |
|             | Jensen Walter J w a     | Sacramento Directory Co. |
|             | Eaton Wm                | Sacramento Directory Co. |
|             | Mock John R             | Sacramento Directory Co. |
|             | Burns Virgil            | Sacramento Directory Co. |
| 1952        | Shates Phillip          | Sacramento Directory Co. |
|             | Sipes R R               | Sacramento Directory Co. |
|             | Smith R W               | Sacramento Directory Co. |
|             | Stugard Alex            | Sacramento Directory Co. |

### 3286 RIO LINDA BLVD

| <u>Year</u> | <u>Uses</u> | <u>Source</u>        |
|-------------|-------------|----------------------|
| 2005        | FUL         | Haines Company, Inc. |

### 3300 RIO LINDA BLVD

| <u>Year</u> | <u>Uses</u>             | <u>Source</u>    |
|-------------|-------------------------|------------------|
| 2014        | NEIGHBORHOOD THRIFT     | Cole Information |
| 2005        | BUSTERS                 | Cole Information |
| 2000        | SMITTYS DRIVE IN        | Cole Information |
| 1999        | BHAJEE Mohamed          | Haines & Company |
|             | SMITTYS DRIVE IN        | Haines & Company |
|             | SMITTYS DRIVE IN        | Haines & Company |
| 1995        | Smittys Drive In        | Pacific Bell     |
|             | SMITTYS DRIVE IN        | Cole Information |
| 1992        | SMITTYS DRIVE IN        | Cole Information |
| 1991        | Smittys Drive In        | Pacific Bell     |
| 1980        | Smittys Drive Inn restr | R. L. Polk & Co. |
| 1975        | Vacant                  | R. L. Polk & Co. |

## FINDINGS

### **RIVERA DR**

#### **904 RIVERA DR**

| <b><u>Year</u></b> | <b><u>Uses</u></b> | <b><u>Source</u></b> |
|--------------------|--------------------|----------------------|
| 2020               | CARMEN DEGUTIERREZ | EDR Digital Archive  |
|                    | ALVARO JIMENEZ     | EDR Digital Archive  |
|                    | SANDRA DEJIMENEZ   | EDR Digital Archive  |
|                    | ALVARO VAZQUEZ     | EDR Digital Archive  |
| 2017               | ALVARO VAZQUEZ     | Cole Information     |
| 2014               | SANDRA DEJIMENEZ   | Cole Information     |
| 2010               | ANSELMO JIMENEZ    | Cole Information     |

#### **907 RIVERA DR**

| <b><u>Year</u></b> | <b><u>Uses</u></b> | <b><u>Source</u></b> |
|--------------------|--------------------|----------------------|
| 2017               | RIVERA MART        | Cole Information     |
| 2014               | RIVERA MART        | Cole Information     |

#### **908 RIVERA DR**

| <b><u>Year</u></b> | <b><u>Uses</u></b> | <b><u>Source</u></b> |
|--------------------|--------------------|----------------------|
| 2020               | DEEDRA SHERWOOD    | EDR Digital Archive  |
| 2017               | WILLIAM REED       | Cole Information     |
| 2014               | DEEDRA SHERWOOD    | Cole Information     |
| 2010               | DEEDRA SHERWOOD    | Cole Information     |

#### **911 RIVERA DR**

| <b><u>Year</u></b> | <b><u>Uses</u></b> | <b><u>Source</u></b>     |
|--------------------|--------------------|--------------------------|
| 1970               | Vacant             | Sacramento Directory Co. |

#### **914 RIVERA DR**

| <b><u>Year</u></b> | <b><u>Uses</u></b> | <b><u>Source</u></b> |
|--------------------|--------------------|----------------------|
| 2020               | MARIA PARTIDA      | EDR Digital Archive  |
| 2017               | MARIA PARTIDA      | Cole Information     |
| 2014               | ALLAN LEDERER      | Cole Information     |
| 2010               | AMBER DUNGAN       | Cole Information     |
| 2005               | OLEE Chares        | Haines Company, Inc. |
|                    | OCCUPANT UNKNOWN   | Cole Information     |

## FINDINGS

| <u>Year</u> | <u>Uses</u>        | <u>Source</u>                       |
|-------------|--------------------|-------------------------------------|
| 2000        | CHARLES LEE        | Cole Information                    |
| 1999        | LEE Charles        | Haines & Company                    |
| 1995        | LEE Charles        | Pacific Bell                        |
|             | LEE, CHARLES       | Cole Information                    |
| 1992        | LEE, CHARLES       | Cole Information                    |
| 1991        | Bailey L D         | Pacific Bell                        |
| 1980        | Bailey L D         | R. L. Polk & Co.                    |
| 1975        | Fortson Leab       | R. L. Polk & Co.                    |
| 1970        | Me Cabe Byron H    | Sacramento Directory Co.            |
| 1965        | Mc Cabe Byron H    | Sacramento Directory Co. Publishers |
| 1961        | Beeler Ralph L w a | Sacramento Directory Co.            |
| 1957        | Geyer Edw E w a    | Sacramento Directory Co.            |

### 916 RIVERA DR

| <u>Year</u> | <u>Uses</u>        | <u>Source</u>                       |
|-------------|--------------------|-------------------------------------|
| 2020        | ROGER DEPALESTRINA | EDR Digital Archive                 |
| 2017        | ROGER DEPALESTRINA | Cole Information                    |
| 2014        | ROGER DEPALESTRINA | Cole Information                    |
| 2010        | ROGER DEPALESTRINA | Cole Information                    |
| 2005        | SERBANDO GARCIA    | Cole Information                    |
| 1999        | HUTTON Desmond     | Haines & Company                    |
| 1995        | OCCUPANT UNKNOWNN  | Cole Information                    |
| 1980        | Brown Anne         | R. L. Polk & Co.                    |
| 1975        | Walker Bobby J Mrs | R. L. Polk & Co.                    |
| 1970        | Bonton Murdis Mrs  | Sacramento Directory Co.            |
| 1965        | Cox Philip J       | Sacramento Directory Co. Publishers |
| 1961        | Mc Cabe Bryon w a  | Sacramento Directory Co.            |
| 1957        | Goode Leon J       | Sacramento Directory Co.            |
| 1952        | Geyer E E          | Sacramento Directory Co.            |

### 919 RIVERA DR

| <u>Year</u> | <u>Uses</u> | <u>Source</u>            |
|-------------|-------------|--------------------------|
| 1952        | Moynier P L | Sacramento Directory Co. |

## FINDINGS

### 921 RIVERA DR

| <u>Year</u> | <u>Uses</u>                      | <u>Source</u>                       |
|-------------|----------------------------------|-------------------------------------|
| 2005        | XXXX                             | Haines Company, Inc.                |
| 1999        | KELLY Stephen                    | Haines & Company                    |
|             | RIVERA CYPRESS PROPERTIES        | Haines & Company                    |
| 1995        | HAUSCHILD Art & Nance            | Pacific Bell                        |
| 1991        | Hauschildt Art Cement Contractor | Pacific Bell                        |
|             | Hauschildt Art & Nance           | Pacific Bell                        |
| 1980        | Hauschildt Arthur cement contr   | R. L. Polk & Co.                    |
| 1975        | Martin Claire Mrs                | R. L. Polk & Co.                    |
| 1970        | Martin Claire Mrs                | Sacramento Directory Co.            |
| 1965        | Martin Claire Mrs                | Sacramento Directory Co. Publishers |
| 1961        | Martin Claude P w a              | Sacramento Directory Co.            |
| 1957        | Martin Claude P w a              | Sacramento Directory Co.            |

### SONOMA AVE

#### 840 SONOMA AVE

| <u>Year</u> | <u>Uses</u> | <u>Source</u>        |
|-------------|-------------|----------------------|
| 2005        | SPANKOB Ile | Haines Company, Inc. |

#### 900 SONOMA AVE

| <u>Year</u> | <u>Uses</u>         | <u>Source</u>        |
|-------------|---------------------|----------------------|
| 2017        | PAMELA STEPHENS     | Cole Information     |
| 2014        | CASSANDRA DUMAS     | Cole Information     |
| 2010        | STEVEN GRAYSON      | Cole Information     |
|             | CLARISE BARNES      | Cole Information     |
| 2005        | X 0 XXX             | Haines Company, Inc. |
|             | DENA BERRY          | Cole Information     |
|             | CHARLES BERRY       | Cole Information     |
| 2000        | LENORA DIXON        | Cole Information     |
| 1999        | DIXON Lenora        | Haines & Company     |
|             | MEJIA Socorro       | Haines & Company     |
| 1995        | HAMILTON, JAMES H   | Cole Information     |
| 1980        | Chestnut Donnie Mrs | R. L. Polk & Co.     |

## FINDINGS

| <u>Year</u> | <u>Uses</u>                       | <u>Source</u>                       |
|-------------|-----------------------------------|-------------------------------------|
| 1975        | Chesnut Donnie Mrs                | R. L. Polk & Co.                    |
| 1970        | Chesnut Donnie Mrs                | Sacramento Directory Co.            |
| 1965        | Vacant                            | Sacramento Directory Co. Publishers |
| 1961        | Chestnut Donnie Mrs w a           | Sacramento Directory Co.            |
|             | Porter Russell Co restr equip w a | Sacramento Directory Co.            |
|             | Porter RZussell F 0 AWA 5 9 G     | Sacramento Directory Co.            |
| 1956        | Sutnmitt Marshall                 | Sacramento Directory Co.            |
| 1952        | Bennett A T                       | Sacramento Directory Co.            |
|             | Crump Arth                        | Sacramento Directory Co.            |
|             | Fimple W J                        | Sacramento Directory Co.            |
|             | Guthrie A J                       | Sacramento Directory Co.            |
|             | Hayes Lois Mrs                    | Sacramento Directory Co.            |
|             | Hayes W L                         | Sacramento Directory Co.            |
|             | Hesser C C                        | Sacramento Directory Co.            |

### 902 SONOMA AVE

| <u>Year</u> | <u>Uses</u>       | <u>Source</u>                       |
|-------------|-------------------|-------------------------------------|
| 2017        | TRAMIA BRYANT     | Cole Information                    |
| 2010        | OCCUPANT UNKNOWN  | Cole Information                    |
| 2005        | PHYLLIS MARTIN    | Cole Information                    |
| 2000        | OCCUPANT UNKNOWN  | Cole Information                    |
| 1999        | XXXX              | Haines & Company                    |
| 1980        | Williams Amilha   | R. L. Polk & Co.                    |
| 1975        | Medlock John H    | R. L. Polk & Co.                    |
| 1970        | Webb Frankie G    | Sacramento Directory Co.            |
| 1965        | Harris Billie     | Sacramento Directory Co. Publishers |
| 1961        | Pearria Maria Mrs | Sacramento Directory Co.            |
| 1956        | Vacant            | Sacramento Directory Co.            |
| 1952        | Anderson R A      | Sacramento Directory Co.            |

### 904 SONOMA AVE

| <u>Year</u> | <u>Uses</u>     | <u>Source</u>       |
|-------------|-----------------|---------------------|
| 2020        | PAMELA STEPHENS | EDR Digital Archive |
| 2017        | PAMELA STEPHENS | Cole Information    |

## FINDINGS

| <u>Year</u> | <u>Uses</u>            | <u>Source</u>                       |
|-------------|------------------------|-------------------------------------|
| 2014        | OCCUPANT UNKNOWN       | Cole Information                    |
| 2005        | MURRAY COHN            | Cole Information                    |
| 2000        | OCCUPANT UNKNOWN       | Cole Information                    |
| 1995        | CARTER, VINA           | Cole Information                    |
| 1980        | Littleton Dal          | R. L. Polk & Co.                    |
| 1975        | Thomson Mabel Y Mrs    | R. L. Polk & Co.                    |
| 1970        | Oliver Betty Mrs       | Sacramento Directory Co.            |
| 1965        | Brooks Merle           | Sacramento Directory Co. Publishers |
| 1961        | Rogers How ard         | Sacramento Directory Co.            |
| 1956        | Mahorney Kenneth R w a | Sacramento Directory Co.            |

### 906 SONOMA AVE

| <u>Year</u> | <u>Uses</u>         | <u>Source</u>                       |
|-------------|---------------------|-------------------------------------|
| 2014        | OCCUPANT UNKNOWN    | Cole Information                    |
| 2010        | ADRIENNE BIA GI     | Cole Information                    |
| 2005        | ADRIENNE BIA GI     | Cole Information                    |
| 2000        | C DELAROSA          | Cole Information                    |
| 1999        | DELAROSA Caroline   | Haines & Company                    |
| 1980        | Medlock Haston J    | R. L. Polk & Co.                    |
| 1975        | Smith Billie        | R. L. Polk & Co.                    |
| 1970        | Dunn Joe            | Sacramento Directory Co.            |
| 1965        | Ferris David A      | Sacramento Directory Co. Publishers |
| 1961        | Pruett Avis Mrs w a | Sacramento Directory Co.            |
| 1956        | Jensen Elmer        | Sacramento Directory Co.            |

### 908 SONOMA AVE

| <u>Year</u> | <u>Uses</u>       | <u>Source</u>            |
|-------------|-------------------|--------------------------|
| 2020        | PARKER BASHAM     | EDR Digital Archive      |
| 2014        | M RODELO          | Cole Information         |
| 2005        | XXXX              | Haines Company, Inc.     |
|             | SHAUNICE BENTLEY  | Cole Information         |
| 1980        | Edmonson Clarence | R. L. Polk & Co.         |
| 1975        | Edmonson Clarence | R. L. Polk & Co.         |
| 1970        | Morrison Theo     | Sacramento Directory Co. |

## FINDINGS

| <u>Year</u> | <u>Uses</u>      | <u>Source</u>                       |
|-------------|------------------|-------------------------------------|
| 1965        | Jennings Pat Mrs | Sacramento Directory Co. Publishers |
| 1961        | Alfaro Richd     | Sacramento Directory Co.            |
| 1956        | Bellah Harry J   | Sacramento Directory Co.            |

### 909 SONOMA AVE

| <u>Year</u> | <u>Uses</u>   | <u>Source</u>        |
|-------------|---------------|----------------------|
| 2005        | BIAGIAdrienne | Haines Company, Inc. |

### 910 SONOMA AVE

| <u>Year</u> | <u>Uses</u>         | <u>Source</u>                       |
|-------------|---------------------|-------------------------------------|
| 2020        | JENNIFER STEVERSON  | EDR Digital Archive                 |
|             | ASHLEY STEVERSON    | EDR Digital Archive                 |
| 2017        | MERCY BRACAMONTE    | Cole Information                    |
| 2014        | JENNIFER STEVERSON  | Cole Information                    |
| 2010        | JENNIFER STEVERSON  | Cole Information                    |
| 2005        | KATHLEEN BROWN      | Cole Information                    |
| 1999        | XXXX                | Haines & Company                    |
| 1980        | Dodds James         | R. L. Polk & Co.                    |
| 1975        | Byers Jim           | R. L. Polk & Co.                    |
| 1970        | Murphy Marion V Mrs | Sacramento Directory Co.            |
| 1965        | Vacant              | Sacramento Directory Co. Publishers |
| 1961        | Vandenberg Don F    | Sacramento Directory Co.            |
| 1956        | Felts Oscar L       | Sacramento Directory Co.            |

### 912 SONOMA AVE

| <u>Year</u> | <u>Uses</u>       | <u>Source</u>            |
|-------------|-------------------|--------------------------|
| 2014        | OCCUPANT UNKNOWN  | Cole Information         |
| 2010        | OCCUPANT UNKNOWN  | Cole Information         |
| 2005        | ASHE William A    | Haines Company, Inc.     |
| 1999        | XXXX              | Haines & Company         |
| 1995        | OCCUPANT UNKNOWNN | Cole Information         |
| 1980        | Schierling Lyle   | R. L. Polk & Co.         |
| 1975        | Baker Charles     | R. L. Polk & Co.         |
| 1970        | Vacant            | Sacramento Directory Co. |

## FINDINGS

| <u>Year</u> | <u>Uses</u>    | <u>Source</u>                       |
|-------------|----------------|-------------------------------------|
| 1965        | Bow man John F | Sacramento Directory Co. Publishers |
| 1961        | Vacant         | Sacramento Directory Co.            |
| 1956        | Mareno John    | Sacramento Directory Co.            |

### 914 SONOMA AVE

| <u>Year</u> | <u>Uses</u>       | <u>Source</u>                       |
|-------------|-------------------|-------------------------------------|
| 2014        | OCCUPANT UNKNOWN  | Cole Information                    |
| 2010        | LINDA BARNES      | Cole Information                    |
| 2005        | HELEN WOOD        | Cole Information                    |
| 1999        | XXXX              | Haines & Company                    |
| 1995        | OCCUPANT UNKNOWNN | Cole Information                    |
| 1980        | Vacant            | R. L. Polk & Co.                    |
| 1975        | Vacant            | R. L. Polk & Co.                    |
| 1970        | Mecum Jack        | Sacramento Directory Co.            |
| 1965        | Ferris Wm S       | Sacramento Directory Co. Publishers |
| 1961        | Coebel Joseph     | Sacramento Directory Co.            |
| 1956        | De Costa Rollan F | Sacramento Directory Co.            |
| 1952        | Baldry H M        | Sacramento Directory Co.            |

### 916 SONOMA AVE

| <u>Year</u> | <u>Uses</u>           | <u>Source</u>    |
|-------------|-----------------------|------------------|
| 2017        | RAEKETHA SMITH        | Cole Information |
| 2014        | CHERI CORET           | Cole Information |
|             | CECILIA HERNANDEZ     | Cole Information |
|             | MARIA MONTOYA         | Cole Information |
|             | JOSE SALGADO          | Cole Information |
|             | KENNETH STIMSON       | Cole Information |
|             | OCCUPANT UNKNOWN      | Cole Information |
| 2010        | GLADYS MONTGOMERY     | Cole Information |
|             | CAMPOS, ANGELIC       | Cole Information |
| 1995        | CAMPOS, ANGELIC       | Cole Information |
| 1991        | Dew itt Ralph R       | Pacific Bell     |
| 1980        | De Witt Adeline V Mrs | R. L. Polk & Co. |
|             | Rear Rickman Albert J | R. L. Polk & Co. |
| 1975        | De Witt Ralph R       | R. L. Polk & Co. |

## FINDINGS

| <u>Year</u> | <u>Uses</u>            | <u>Source</u>                       |
|-------------|------------------------|-------------------------------------|
| 1975        | Rear Rickman Albert    | R. L. Polk & Co.                    |
| 1970        | De Witt Ralph R        | Sacramento Directory Co.            |
|             | Rear Jaycox Kath Mrs   | Sacramento Directory Co.            |
| 1965        | De Witt Ralph R W      | Sacramento Directory Co. Publishers |
|             | Jaycox Bob H           | Sacramento Directory Co. Publishers |
| 1961        | De Witt Ralph it 0 w a | Sacramento Directory Co.            |
|             | Kalafatish Geo         | Sacramento Directory Co.            |
| 1956        | De Witt Ralph R LW     | Sacramento Directory Co.            |
|             | Dow ney Thos L OW      | Sacramento Directory Co.            |
| 1952        | Craig J C              | Sacramento Directory Co.            |
|             | rear Butler A L        | Sacramento Directory Co.            |
| 1947        | Q Craig J C Y          | Sacramento Directory Co.            |
|             | rear Barrett Marvin    | Sacramento Directory Co.            |
| 1942        | Vacant                 | Sacramento Directory Co.            |

### 917 SONOMA AVE

| <u>Year</u> | <u>Uses</u> | <u>Source</u>            |
|-------------|-------------|--------------------------|
| 1952        | Smith D M   | Sacramento Directory Co. |

### 924 SONOMA AVE

| <u>Year</u> | <u>Uses</u>        | <u>Source</u>                       |
|-------------|--------------------|-------------------------------------|
| 2014        | REX CARRINO        | Cole Information                    |
| 2010        | REX CARRINO        | Cole Information                    |
| 2005        | SCARRINO Rex       | Haines Company, Inc.                |
|             | REX CARRINO        | Cole Information                    |
| 2000        | OCCUPANT UNKNOWN   | Cole Information                    |
| 1999        | LARIMER Betty      | Haines & Company                    |
| 1995        | LARIMER, BETTY J   | Cole Information                    |
| 1980        | Hamlin Margie      | R. L. Polk & Co.                    |
| 1975        | Hamlin Margie      | R. L. Polk & Co.                    |
| 1970        | Andre Myrtle M Mrs | Sacramento Directory Co.            |
| 1965        | Andre Myrtle M Mrs | Sacramento Directory Co. Publishers |
| 1961        | Andre Myrtle M Mrs | Sacramento Directory Co.            |
| 1956        | Andre Myrtle M Mrs | Sacramento Directory Co.            |

## FINDINGS

| <u>Year</u> | <u>Uses</u>   | <u>Source</u>            |
|-------------|---------------|--------------------------|
| 1952        | Andre M M Mrs | Sacramento Directory Co. |
| 1947        | Andre A J     | Sacramento Directory Co. |
|             | Andre A J     | Sacramento Directory Co. |
| 1942        | Hine L K      | Sacramento Directory Co. |

### 925 SONOMA AVE

| <u>Year</u> | <u>Uses</u>   | <u>Source</u>                       |
|-------------|---------------|-------------------------------------|
| 1965        | Sanchez Joe   | Sacramento Directory Co. Publishers |
| 1956        | Turners Court | Sacramento Directory Co.            |
|             | Hiler Alvin W | Sacramento Directory Co.            |
| 1952        | Vaughn J W    | Sacramento Directory Co.            |
| 1947        | Wallace G Z   | Sacramento Directory Co.            |

### 927 SONOMA AVE

| <u>Year</u> | <u>Uses</u>     | <u>Source</u>                       |
|-------------|-----------------|-------------------------------------|
| 1965        | Lackew it Michi | Sacramento Directory Co. Publishers |
| 1956        | Johnson Jimmy   | Sacramento Directory Co.            |
| 1952        | Martinez Andrew | Sacramento Directory Co.            |
| 1947        | Gaines Kingsley | Sacramento Directory Co.            |

### 929 SONOMA AVE

| <u>Year</u> | <u>Uses</u>   | <u>Source</u>                       |
|-------------|---------------|-------------------------------------|
| 1965        | Marcott David | Sacramento Directory Co. Publishers |
| 1956        | Edw ard Roy   | Sacramento Directory Co.            |
| 1947        | Dixon J H     | Sacramento Directory Co.            |

### 931 SONOMA AVE

| <u>Year</u> | <u>Uses</u>     | <u>Source</u>                       |
|-------------|-----------------|-------------------------------------|
| 1965        | Silva Vern      | Sacramento Directory Co. Publishers |
| 1956        | Czarnow ski Jos | Sacramento Directory Co.            |
| 1952        | Cooper Margt    | Sacramento Directory Co.            |
| 1942        | Hoart Louis     | Sacramento Directory Co.            |

### 933 SONOMA AVE

| <u>Year</u> | <u>Uses</u>           | <u>Source</u>       |
|-------------|-----------------------|---------------------|
| 2020        | KEOUDONE SINGTHAVILAY | EDR Digital Archive |

## FINDINGS

| <u>Year</u> | <u>Uses</u>               | <u>Source</u>                       |
|-------------|---------------------------|-------------------------------------|
| 2020        | SEJA XIONG                | EDR Digital Archive                 |
|             | PHETSOMPHONE SINGTHAVILAY | EDR Digital Archive                 |
|             | BEE XIONG                 | EDR Digital Archive                 |
| 2014        | OCCUPANT UNKNOWN          | Cole Information                    |
| 2010        | KEOUDONE SINGTHAVILAY     | Cole Information                    |
| 2005        | SINGTHAEILAY              | Haines Company, Inc.                |
|             | Phelsonphone              | Haines Company, Inc.                |
| 1965        | Lackett Dorothy           | Sacramento Directory Co. Publishers |
| 1956        | Miller Richd              | Sacramento Directory Co.            |
| 1952        | Henry H C Mrs             | Sacramento Directory Co.            |
| 1947        | Bement Eva Mrs            | Sacramento Directory Co.            |
| 1942        | Hamblen T W               | Sacramento Directory Co.            |

### 935 SONOMA AVE

| <u>Year</u> | <u>Uses</u>    | <u>Source</u>            |
|-------------|----------------|--------------------------|
| 1956        | Garrison Ralph | Sacramento Directory Co. |
| 1952        | Bartels H N    | Sacramento Directory Co. |
| 1947        | Adcock D R     | Sacramento Directory Co. |
| 1942        | Parchman C K   | Sacramento Directory Co. |

### 937 SONOMA AVE

| <u>Year</u> | <u>Uses</u> | <u>Source</u>            |
|-------------|-------------|--------------------------|
| 1942        | Silva E J   | Sacramento Directory Co. |

### 939 SONOMA AVE

| <u>Year</u> | <u>Uses</u>         | <u>Source</u>        |
|-------------|---------------------|----------------------|
| 2020        | MARIA HERRERA       | EDR Digital Archive  |
|             | RODRIGUEZ HERNANDEZ | EDR Digital Archive  |
|             | JUAN RODRIGUEZ      | EDR Digital Archive  |
|             | TIA TAAMILO         | EDR Digital Archive  |
| 2014        | ABBY VANG           | Cole Information     |
| 2010        | EFRAIN HERRERA      | Cole Information     |
| 2005        | HERRERA Eera In     | Haines Company, Inc. |
|             | EFRAIN HERRERA      | Cole Information     |

## FINDINGS

| <u>Year</u> | <u>Uses</u>      | <u>Source</u>            |
|-------------|------------------|--------------------------|
| 2000        | OCCUPANT UNKNOWN | Cole Information         |
| 1999        | HERRERA Efrain   | Haines & Company         |
| 1956        | Kennedy Bill     | Sacramento Directory Co. |
| 1952        | Thompson Jas     | Sacramento Directory Co. |
| 1942        | Bird V B         | Sacramento Directory Co. |

### 940 SONOMA AVE

| <u>Year</u> | <u>Uses</u>           | <u>Source</u>                       |
|-------------|-----------------------|-------------------------------------|
| 2017        | CRYSTAL ICE           | Cole Information                    |
| 2014        | CRYSTAL ICE           | Cole Information                    |
| 2005        | L GRUBER              | Cole Information                    |
| 2000        | OCCUPANT UNKNOWN      | Cole Information                    |
| 1999        | PANKO Billie          | Haines & Company                    |
| 1995        | GRUBER, LYNNE         | Cole Information                    |
| 1980        | Young Lyle L          | R. L. Polk & Co.                    |
| 1975        | Young Lyle L          | R. L. Polk & Co.                    |
| 1970        | Young Lyle L          | Sacramento Directory Co.            |
| 1965        | Young Lyle L          | Sacramento Directory Co. Publishers |
| 1961        | Young Lyle U          | Sacramento Directory Co.            |
| 1956        | Patrick Everett E w a | Sacramento Directory Co.            |
| 1952        | Gerhardt S W          | Sacramento Directory Co.            |
| 1942        | Linn C E              | Sacramento Directory Co.            |

### 941 SONOMA AVE

| <u>Year</u> | <u>Uses</u>          | <u>Source</u>            |
|-------------|----------------------|--------------------------|
| 1956        | Jones Emma J Mrs w a | Sacramento Directory Co. |
| 1952        | Jones E J Mrs        | Sacramento Directory Co. |
| 1942        | Glenn Chas           | Sacramento Directory Co. |

### 943 SONOMA AVE

| <u>Year</u> | <u>Uses</u>       | <u>Source</u>            |
|-------------|-------------------|--------------------------|
| 1956        | Southw orth R Lee | Sacramento Directory Co. |
| 1952        | Janw ay L H       | Sacramento Directory Co. |
| 1947        | Young Lester      | Sacramento Directory Co. |

## FINDINGS

| <u>Year</u> | <u>Uses</u> | <u>Source</u>            |
|-------------|-------------|--------------------------|
| 1942        | Ryan E F    | Sacramento Directory Co. |

### 945 SONOMA AVE

| <u>Year</u> | <u>Uses</u>      | <u>Source</u>            |
|-------------|------------------|--------------------------|
| 2020        | WILLIAM SCHRADER | EDR Digital Archive      |
| 2017        | MERCY SAVAT      | Cole Information         |
| 2010        | SERGIO LEON      | Cole Information         |
| 2005        | LEONSerglo       | Haines Company, Inc.     |
|             | SERGIO LEON      | Cole Information         |
| 2000        | SERGIO LEON      | Cole Information         |
| 1999        | LEON Sergio      | Haines & Company         |
| 1956        | Bassinger R E    | Sacramento Directory Co. |
| 1952        | Hebert Albert    | Sacramento Directory Co. |
| 1947        | Jeffery Arlen    | Sacramento Directory Co. |
| 1942        | Jensen A G       | Sacramento Directory Co. |

### 946 SONOMA AVE

| <u>Year</u> | <u>Uses</u>       | <u>Source</u>                       |
|-------------|-------------------|-------------------------------------|
| 2020        | JUDY NICHOLS      | EDR Digital Archive                 |
| 2017        | JUDY NICHOLS      | Cole Information                    |
| 2014        | JUDY NICHOLS      | Cole Information                    |
| 2005        | ORICHARDSON Bassa | Haines Company, Inc.                |
| 2000        | KEN STROUGH       | Cole Information                    |
| 1999        | STROUGH Ken       | Haines & Company                    |
| 1995        | STROUGH Ken       | Pacific Bell                        |
|             | STROUGH, KEN      | Cole Information                    |
| 1992        | STROUGH, KEN      | Cole Information                    |
| 1991        | Strough Ken       | Pacific Bell                        |
| 1980        | Strough Ken C     | R. L. Polk & Co.                    |
| 1975        | Stark Elmo        | R. L. Polk & Co.                    |
| 1970        | Stark Elmo        | Sacramento Directory Co.            |
| 1965        | Rose Lewis A W    | Sacramento Directory Co. Publishers |
| 1961        | Rose Lewis A      | Sacramento Directory Co.            |
| 1956        | Rose Lewis A w a  | Sacramento Directory Co.            |

## FINDINGS

| <u>Year</u> | <u>Uses</u>     | <u>Source</u>            |
|-------------|-----------------|--------------------------|
| 1956        | Rose Opal MANWA | Sacramento Directory Co. |
| 1952        | Rose Lewis      | Sacramento Directory Co. |
| 1947        | Rose Lewis Y    | Sacramento Directory Co. |
| 1942        | Rose Lewis      | Sacramento Directory Co. |

### 949 SONOMA AVE

| <u>Year</u> | <u>Uses</u>       | <u>Source</u>            |
|-------------|-------------------|--------------------------|
| 2020        | VANG SENG         | EDR Digital Archive      |
|             | SENG LEE          | EDR Digital Archive      |
|             | NAO SENG          | EDR Digital Archive      |
| 2017        | NAO SENG          | Cole Information         |
| 2014        | HUA VANG          | Cole Information         |
| 2010        | ANTOINETTE WHITE  | Cole Information         |
| 2005        | SINGTHAVILAY Nhom | Haines Company, Inc.     |
| 1956        | Bement Eva Mrs    | Sacramento Directory Co. |
| 1952        | Bement Eva Mrs    | Sacramento Directory Co. |
| 1947        | Stevenson G       | Sacramento Directory Co. |
| 1942        | Wyrth R P         | Sacramento Directory Co. |

### 950 SONOMA AVE

| <u>Year</u> | <u>Uses</u>      | <u>Source</u>            |
|-------------|------------------|--------------------------|
| 2020        | ELIZABETH DAVIES | EDR Digital Archive      |
| 2017        | ELIZABETH DAVIES | Cole Information         |
| 2014        | ELIZABETH DAVIES | Cole Information         |
| 2010        | ELIZABETH DAVIES | Cole Information         |
| 2005        | DAVIES Elizabeth | Haines Company, Inc.     |
|             | ELIZABETH DAVIES | Cole Information         |
| 2000        | OCCUPANT UNKNOWN | Cole Information         |
| 1999        | DAVIES Elizabeth | Haines & Company         |
|             | MEJIA Socorro    | Haines & Company         |
| 1995        | OCCUPANT UNKNOWN | Cole Information         |
| 1980        | Nen Thos A       | R. L. Polk & Co.         |
| 1975        | Rose Opal M      | R. L. Polk & Co.         |
| 1970        | Rose Opal M      | Sacramento Directory Co. |

## FINDINGS

| <u>Year</u> | <u>Uses</u>         | <u>Source</u>            |
|-------------|---------------------|--------------------------|
| 1961        | J 3nittin Edith Mrs | Sacramento Directory Co. |
| 1956        | Moorhouse Ei A      | Sacramento Directory Co. |
| 1952        | Freisz Matt         | Sacramento Directory Co. |
| 1947        | s Orisek Irene      | Sacramento Directory Co. |
| 1942        | Orisek Irene A      | Sacramento Directory Co. |

### 951 SONOMA AVE

| <u>Year</u> | <u>Uses</u>                          | <u>Source</u>                       |
|-------------|--------------------------------------|-------------------------------------|
| 2020        | NATALIE MADRIZ                       | EDR Digital Archive                 |
| 2014        | OCCUPANT UNKNOWN                     | Cole Information                    |
| 2005        | MGUTIERREZ Refugl JARAMILLO Ashley A | Haines Company, Inc.                |
|             | ASHLEY JARAMILLO                     | Cole Information                    |
| 2000        | OCCUPANT UNKNOWN                     | Cole Information                    |
| 1999        | GUTIERREZ Refugio                    | Haines & Company                    |
| 1995        | OCCUPANT UNKNOWN                     | Cole Information                    |
| 1980        | Walton Daw na J                      | R. L. Polk & Co.                    |
|             | Rear Rickman Albert J                | R. L. Polk & Co.                    |
| 1975        | Myles John D                         | R. L. Polk & Co.                    |
| 1970        | Morris John M                        | Sacramento Directory Co.            |
| 1965        | Evers Adolph J W                     | Sacramento Directory Co. Publishers |
| 1961        | Evers Adolph J w a                   | Sacramento Directory Co.            |
| 1956        | Evers Adolph J w a                   | Sacramento Directory Co.            |
| 1952        | Evers A J                            | Sacramento Directory Co.            |
| 1947        | AEvers A J Y                         | Sacramento Directory Co.            |
| 1942        | Bojcich Martin                       | Sacramento Directory Co.            |

### 961 SONOMA AVE

| <u>Year</u> | <u>Uses</u>           | <u>Source</u>        |
|-------------|-----------------------|----------------------|
| 2014        | JASON SMITH           | Cole Information     |
| 2005        | JEW Eddie POSEY Keren | Haines Company, Inc. |
|             | KAREN POSEY           | Cole Information     |
| 1999        | JEW Eddie             | Haines & Company     |
| 1995        | OCCUPANT UNKNOWN      | Cole Information     |
| 1980        | Goebel Rosanne        | R. L. Polk & Co.     |

## FINDINGS

| <u>Year</u> | <u>Uses</u>          | <u>Source</u>                       |
|-------------|----------------------|-------------------------------------|
| 1975        | Berkla John          | R. L. Polk & Co.                    |
| 1970        | Berkla Joseph        | Sacramento Directory Co.            |
| 1965        | Berkla Jos OW        | Sacramento Directory Co. Publishers |
| 1961        | Berkla Jos A Jr 0 wa | Sacramento Directory Co.            |
| 1956        | Berkla Jos A jr w a  | Sacramento Directory Co.            |
| 1952        | Berkla Jos jr        | Sacramento Directory Co.            |
| 1947        | I ABerkla o Js Jr Y  | Sacramento Directory Co.            |
| 1942        | BI AOBerkla Jos jr   | Sacramento Directory Co.            |

## FINDINGS

### ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

| <b><u>Address Researched</u></b> | <b><u>Address Not Identified in Research Source</u></b>  |
|----------------------------------|--|
| 3104 RIO LINDA BLVD              | 2020, 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920       |
| 3104 RIO LINDA BLVD              | 2020, 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 3104 RIO LINDA BLVD              | 2020, 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920       |
| 3104 RIO LINDA BLVD              | 2020, 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1947, 1942, 1937, 1933, 1928, 1923, 1920       |
| 3104 RIO LINDA BLVD              | 2020, 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1942, 1937, 1933, 1928, 1923, 1920       |
| 3104 RIO LINDA BLVD              | 2020, 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1937, 1933, 1928, 1923, 1920       |
| 3108 RIO LINDA BLVD              | 2020, 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1937, 1933, 1928, 1923, 1920       |
| 3108 RIO LINDA BLVD              | 2020, 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1942, 1937, 1933, 1928, 1923, 1920       |
| 3108 RIO LINDA BLVD              | 2020, 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1947, 1942, 1937, 1933, 1928, 1923, 1920       |
| 3108 RIO LINDA BLVD              | 2020, 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920       |
| 3108 RIO LINDA BLVD              | 2020, 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920       |
| 3108 RIO LINDA BLVD              | 2020, 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920       |
| 3108 RIO LINDA BLVD              | 2020, 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920       |
| 3108 RIO LINDA BLVD              | 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920       |

















































## FINDINGS

| <b><u>Address Researched</u></b> | <b><u>Address Not Identified in Research Source</u></b>  |
|----------------------------------|--|
| 817 EVANS ST                     | 2020, 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 817 EVANS ST                     | 2020, 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 817 EVANS ST                     | 2020, 2017, 2014, 2010, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 817 EVANS ST                     | 2020, 2017, 2014, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 817 EVANS ST                     | 2020, 2017, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 817 EVANS ST                     | 2020, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 817 EVANS ST                     | 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 817 EVANS ST                     | 2020, 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 840 SONOMAAVE                    | 2020, 2017, 2014, 2010, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 844 ARCADE BLVD                  | 2020, 2017, 2014, 2010, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 859 ARCADE BLVD                  | 2020, 2017, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 900 SONOMAAVE                    | 2020, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 900 SONOMAAVE                    | 2020, 2017, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 900 SONOMAAVE                    | 2020, 2017, 2014, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 900 SONOMAAVE                    | 2020, 2017, 2014, 2010, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 900 SONOMAAVE                    | 2020, 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |















































## FINDINGS

### **Address Researched**

### **Address Not Identified in Research Source**

|               |  |
|---------------|--|
| 949 SONOMAAVE | 2020, 2017, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 950 OPAL LN   | 2020, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 950 OPAL LN   | 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 950 OPAL LN   | 2020, 2017, 2014, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 950 OPAL LN   | 2020, 2017, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 950 OPAL LN   | 2020, 2017, 2014, 2010, 2005, 2002, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 950 OPAL LN   | 2020, 2017, 2014, 2010, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 950 OPAL LN   | 2020, 2017, 2014, 2010, 2005, 2002, 2000, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 950 SONOMAAVE | 2020, 2017, 2014, 2010, 2005, 2002, 2000, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 950 SONOMAAVE | 2020, 2017, 2014, 2010, 2005, 2002, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 950 SONOMAAVE | 2020, 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 950 SONOMAAVE | 2020, 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 950 SONOMAAVE | 2020, 2017, 2014, 2010, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 950 SONOMAAVE | 2020, 2017, 2014, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |
| 950 SONOMAAVE | 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920 |































## FINDINGS

### **Address Researched**

999 ARCADE BLVD

999 ARCADE BLVD

999 ARCADE BLVD

### **Address Not Identified in Research Source**

2020, 2017, 2014, 2010, 2005, 2002, 2000, 1995, 1992, 1991, 1982, 1980, 1975, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920

2020, 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1975, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920

2020, 2017, 2014, 2010, 2005, 2002, 2000, 1999, 1995, 1992, 1991, 1982, 1980, 1970, 1966, 1965, 1961, 1957, 1956, 1952, 1947, 1942, 1937, 1933, 1928, 1923, 1920

**TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE**

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

**Address Researched**

3200 Rio Linda Boulevard

**Address Not Identified in Research Source**

2020, 2002, 1991, 1982, 1966, 1956, 1947, 1937, 1933, 1928, 1923, 1920



Corporate Headquarters  
1322 E. Shaw Avenue, Suite 400 Fresno, CA, 93710  
www.soarhere.com • 559.547.8884

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## Appendix E: User Questionnaire



Corporate Headquarters  
1322 E. Shaw Avenue, Suite 400 Fresno, CA, 93710  
www.soarhere.com • 559.547.8884

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## Appendix F: SDS Sheet



# SAFETY DATA SHEET

Creation Date 28-Apr-2009

Revision Date 12-Mar-2014

Revision Number 1

## 1. Identification

**Product Name** Acetone  
**Cat No. :** AC167640000; AC167640025; AC167645000  
**Synonyms** 2-Propanone  
**Recommended Use** Laboratory chemicals.  
**Uses advised against** No Information available  
**Details of the supplier of the safety data sheet**

| Company   | Entity / Business Name                                    | Emergency Telephone Number  |
|---|---|---|
| Fisher Scientific<br>One Reagent Lane<br>Fair Lawn, NJ 07410<br>Tel: (201) 796-7100 | Acros Organics<br>One Reagent Lane<br>Fair Lawn, NJ 07410 | For information <b>US</b> call: 001-800-ACROS-01<br>/ <b>Europe</b> call: +32 14 57 52 11<br>Emergency Number <b>US</b> :001-201-796-7100 /<br><b>Europe</b> : +32 14 57 52 99<br><b>CHEMTREC</b> Tel. No. <b>US</b> :001-800-424-9300 /<br><b>Europe</b> :001-703-527-3887 |

## 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|  |            |
|--|------------|
| Flammable liquids                                    | Category 2 |
| Serious Eye Damage/Eye Irritation                    | Category 2 |
| Specific target organ toxicity (single exposure)     | Category 3 |
| Target Organs - Central nervous system (CNS).        |            |
| Specific target organ toxicity - (repeated exposure) | Category 2 |
| Target Organs - Kidney, Liver, spleen, Blood.        |            |

### Label Elements

#### Signal Word

Danger

#### Hazard Statements

Highly flammable liquid and vapor  
Causes serious eye irritation  
May cause drowsiness or dizziness  
May cause damage to organs through prolonged or repeated exposure



### Precautionary Statements

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use explosion-proof electrical/ventilating/lighting/equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Keep cool

#### Response

Get medical attention/advice if you feel unwell

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Call a POISON CENTER or doctor/physician if you feel unwell

#### Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention

#### Fire

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

#### Storage

Store in a well-ventilated place. Keep container tightly closed  
 Store locked up

#### Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Repeated exposure may cause skin dryness or cracking

## 3. Composition / information on ingredients

| Component | CAS-No  | Weight % |
|-----------|---------|----------|
| Acetone   | 67-64-1 | >95      |

## 4. First-aid measures

|                     |  |
|---------------------|--|
| <b>Eye Contact</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention. |
| <b>Skin Contact</b> | Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.                       |
| <b>Inhalation</b>   | Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.    |
| <b>Ingestion</b>    | Do not induce vomiting. Obtain medical attention.  |

**Most important symptoms/effects** Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: May cause pulmonary edema: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

**Notes to Physician** Treat symptomatically

## 5. Fire-fighting measures

**Suitable Extinguishing Media** CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam. Water spray. Cool closed containers exposed to fire with water spray.

**Unsuitable Extinguishing Media** Water may be ineffective

**Flash Point** -20 °C / -4 °F  
**Method -** Closed cup

**Autoignition Temperature** 465 °C / 869 °F

**Explosion Limits**

**Upper** 12.8 vol %  
**Lower** 2.5 vol %

**Oxidizing Properties** Not oxidising

**Sensitivity to Mechanical Impact** No information available  
**Sensitivity to Static Discharge** No information available

### Specific Hazards Arising from the Chemical

Flammable. Risk of ignition. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

### Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>) Formaldehyde Methanol

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

### NFPA

|                    |                          |                         |                                |
|--------------------|--------------------------|-------------------------|--------------------------------|
| <b>Health</b><br>1 | <b>Flammability</b><br>3 | <b>Instability</b><br>0 | <b>Physical hazards</b><br>N/A |
|--------------------|--------------------------|-------------------------|--------------------------------|

## 6. Accidental release measures

**Personal Precautions** Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and inhalation of vapors.

**Environmental Precautions** Should not be released into the environment.

**Methods for Containment and Clean Up** Remove all sources of ignition. Take precautionary measures against static discharges. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Use spark-proof tools and explosion-proof equipment.

## 7. Handling and storage

**Handling** Wear personal protective equipment. Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only non-sparking tools. Use explosion-proof equipment. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

**Storage** Flammables area. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure controls / personal protection

### Exposure Guidelines

| Component | ACGIH TLV                     | OSHA PEL  | NIOSH IDLH   |
|-----------|-------------------------------|---|--|
| Acetone   | TWA: 500 ppm<br>STEL: 750 ppm | (Vacated) TWA: 750 ppm<br>(Vacated) TWA: 1800 mg/m <sup>3</sup><br>(Vacated) STEL: 2400 mg/m <sup>3</sup><br>(Vacated) STEL: 1000 ppm<br>TWA: 1000 ppm<br>TWA: 2400 mg/m <sup>3</sup> | IDLH: 2500 ppm<br>TWA: 250 ppm<br>TWA: 590 mg/m <sup>3</sup> |

| Component | Quebec  | Mexico OEL (TWA)   | Ontario TWA/EV                |
|-----------|---|--|-------------------------------|
| Acetone   | TWA: 500 ppm<br>TWA: 1190 mg/m <sup>3</sup><br>STEL: 1000 ppm<br>STEL: 2380 mg/m <sup>3</sup> | TWA: 1000 ppm<br>TWA: 2400 mg/m <sup>3</sup><br>STEL: 1260 ppm<br>STEL: 3000 mg/m <sup>3</sup> | TWA: 500 ppm<br>STEL: 750 ppm |

#### Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

### Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment.

### Personal Protective Equipment

#### Eye/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

|  |                           |
|--|---------------------------|
| Physical State                         | Liquid                    |
| Appearance                             | Colorless                 |
| Odor                                   | sweet                     |
| Odor Threshold                         | 19.8 ppm                  |
| pH                                     | 7                         |
| Melting Point/Range                    | -95 °C / -139 °F          |
| Boiling Point/Range                    | 56 °C / 132.8 °F          |
| Flash Point                            | -20 °C / -4 °F            |
| Method -                               | Closed cup                |
| Evaporation Rate                       | 5.6 (Butyl Acetate = 1.0) |
| Flammability (solid,gas)               | Not applicable            |
| Flammability or explosive limits       |                           |
| Upper                                  | 12.8 vol %                |
| Lower                                  | 2.5 vol %                 |
| Vapor Pressure                         | 247 mbar @ 20 °C          |
| Vapor Density                          | 2.0                       |
| Relative Density                       | 0.790                     |
| Solubility                             | Soluble in water          |
| Partition coefficient; n-octanol/water | No data available         |

|                           |                    |
|---------------------------|--------------------|
| Autoignition Temperature  | 465 °C / 869 °F    |
| Decomposition Temperature | > 4°C              |
| Viscosity                 | 0.32 mPa.s @ 20 °C |
| Molecular Formula         | C3 H6 O            |
| Molecular Weight          | 58.08              |
| Refractive index          | 1.358 - 1.359      |

## 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactive Hazard</b>                  | None known, based on information available   |
| <b>Stability</b>                        | Stable under normal conditions.  |
| <b>Conditions to Avoid</b>              | Heat, flames and sparks. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.      |
| <b>Incompatible Materials</b>           | Strong oxidizing agents, Strong reducing agents, Strong bases, Peroxides, Halogenated compounds, Alkali metals, Amines |
| <b>Hazardous Decomposition Products</b> | Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Formaldehyde, Methanol  |
| <b>Hazardous Polymerization</b>         | Hazardous polymerization does not occur.   |
| <b>Hazardous Reactions</b>              | None under normal processing.  |

## 11. Toxicological information

### Acute Toxicity

#### Product Information

#### Component Information

| Component | LD50 Oral          | LD50 Dermal                                  | LC50 Inhalation     |
|-----------|--------------------|--|---------------------|
| Acetone   | 5800 mg/kg ( Rat ) | > 15800 mg/kg (rabbit)<br>> 7400 mg/kg (rat) | 76 mg/l, 4 h, (rat) |

**Toxicologically Synergistic Products** Carbon tetrachloride; Chloroform; Trichloroethylene; Bromodichloromethane; Dibromochloromethane; N-nitrosodimethylamine; 1,1,2-Trichloroethane; Styrene; Acetonitrile, 2,5-Hexanedione; Ethanol; 1,2-Dichlorobenzene

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                        |  |
|------------------------|--|
| <b>Irritation</b>      | Irritating to eyes and skin  |
| <b>Sensitization</b>   | No information available   |
| <b>Carcinogenicity</b> | The table below indicates whether each agency has listed any ingredient as a carcinogen. |

| Component | CAS-No  | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|-----------|---------|------------|------------|------------|------------|------------|
| Acetone   | 67-64-1 | Not listed |

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

**STOT - single exposure** Central nervous system (CNS)  
**STOT - repeated exposure** Kidney Liver spleen Blood

**Aspiration hazard** No information available

**Symptoms / effects, both acute and** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting:

|  |  |
|--|--|
| <b>delayed</b>                         | May cause pulmonary edema: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting |
| <b>Endocrine Disruptor Information</b> | No information available   |
| <b>Other Adverse Effects</b>           | Neurotoxic effects have occurred in experimental animals.  |

## 12. Ecological information

### Ecotoxicity

| Component | Freshwater Algae              | Freshwater Fish   | Microtox                 | Water Flea   |
|-----------|-------------------------------|---|--------------------------|--|
| Acetone   | NOEC = 430 mg/l (algae; 96 h) | Oncorhynchus mykiss: LC50 = 5540 mg/l 96h<br>Alburnus alburnus: LC50 = 11000 mg/l 96h<br>Leuciscus idus: LC50 = 11300 mg/L/48h<br>Salmo gairdneri: LC50 = 6100 mg/L/24h | EC50 = 14500 mg/L/15 min | EC50 = 8800 mg/L/48h<br>EC50 = 12700 mg/L/48h<br>EC50 = 12600 mg/L/48h |

|                                      |   |
|--------------------------------------|---|
| <b>Persistence and Degradability</b> | Persistence is unlikely based on information available. |
| <b>Bioaccumulation/ Accumulation</b> | No information available.                               |

|                 |   |
|-----------------|---|
| <b>Mobility</b> | Will likely be mobile in the environment due to its volatility. |
|-----------------|---|

| Component | log Pow |
|-----------|---------|
| Acetone   | -0.24   |

## 13. Disposal considerations

|                               |   |
|-------------------------------|---|
| <b>Waste Disposal Methods</b> | Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification. |
|-------------------------------|---|

| Component         | RCRA - U Series Wastes | RCRA - P Series Wastes |
|-------------------|------------------------|------------------------|
| Acetone - 67-64-1 | U002                   | -                      |

## 14. Transport information

### DOT

|                      |         |
|----------------------|---------|
| UN-No                | UN1090  |
| Proper Shipping Name | ACETONE |
| Hazard Class         | 3       |
| Packing Group        | II      |

### TDG

|                      |         |
|----------------------|---------|
| UN-No                | UN1090  |
| Proper Shipping Name | ACETONE |
| Hazard Class         | 3       |
| Packing Group        | II      |

### IATA

|                      |         |
|----------------------|---------|
| UN-No                | UN1090  |
| Proper Shipping Name | ACETONE |
| Hazard Class         | 3       |
| Packing Group        | II      |

### IMDG/IMO

|                      |         |
|----------------------|---------|
| UN-No                | UN1090  |
| Proper Shipping Name | ACETONE |
| Hazard Class         | 3       |
| Packing Group        | II      |

## 15. Regulatory information

### International Inventories

| Component | TSCA | DSL | NDSL | EINECS    | ELINCS | NLP | PICCS | ENCS | AICS | IECSC | KECL |
|-----------|------|-----|------|-----------|--------|-----|-------|------|------|-------|------|
| Acetone   | X    | X   | -    | 200-662-2 | -      |     | X     | X    | X    | X     | X    |

**Legend:**

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

**U.S. Federal Regulations**

TSCA 12(b) Not applicable

SARA 313 Not applicable

**SARA 311/312 Hazardous Categorization**

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | Yes |
| Chronic Health Hazard             | Yes |
| Fire Hazard                       | Yes |
| Sudden Release of Pressure Hazard | No  |
| Reactive Hazard                   | No  |

Clean Water Act Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration  
Not applicable

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Component | Hazardous Substances RQs | CERCLA EHS RQs |
|-----------|--------------------------|----------------|
| Acetone   | 5000 lb                  | -              |

**California Proposition 65** This product does not contain any Proposition 65 chemicals

**State Right-to-Know**

| Component | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|-----------|---------------|------------|--------------|----------|--------------|
| Acetone   | X             | X          | X            | -        | X            |

**U.S. Department of Transportation**

Reportable Quantity (RQ): Y  
DOT Marine Pollutant N  
DOT Severe Marine Pollutant N

**U.S. Department of Homeland Security**

This product contains the following DHS chemicals:

| Component | DHS Chemical Facility Anti-Terrorism Standard |
|-----------|---|
| Acetone   | 2000 lb STQ                                   |

---

**Other International Regulations**

Mexico - Grade Serious risk, Grade 3

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class B2 Flammable liquid  
D2B Toxic materials



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**16. Other information**

Prepared By Regulatory Affairs  
Thermo Fisher Scientific  
Email: EMSDS.RA@thermofisher.com

Creation Date 28-Apr-2009

Revision Date 12-Mar-2014

Print Date 12-Mar-2014

Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

**Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of SDS**

# SAFETY DATA SHEET

## Benzene

### Section 1. Identification

|   |   |
|---|---|
| <b>GHS product identifier</b>                               | : Benzene   |
| <b>Chemical name</b>  | : benzene   |
| <b>Other means of identification</b>                        | : benzene, purebenzol; cyclohexatriene; phenyl hydride; phene; coal naphtha; pyrobenzol                                       |
| <b>Product use</b>  | : Synthetic/Analytical chemistry.   |
| <b>Synonym</b>  | : benzene, purebenzol; cyclohexatriene; phenyl hydride; phene; coal naphtha; pyrobenzol                                       |
| <b>SDS #</b>  | : 001062  |
| <b>Supplier's details</b>                                   | : Airgas USA, LLC and its affiliates<br>259 North Radnor-Chester Road<br>Suite 100<br>Radnor, PA 19087-5283<br>1-610-687-5253 |
| <b>Emergency telephone number (with hours of operation)</b> | : 1-866-734-3438  |

### Section 2. Hazards identification

|   |  |
|---|--|
| <b>OSHA/HCS status</b>                            | : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  |
| <b>Classification of the substance or mixture</b> | : FLAMMABLE LIQUIDS - Category 2<br>SKIN CORROSION/IRRITATION - Category 2<br>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2<br>GERM CELL MUTAGENICITY - Category 1B<br>CARCINOGENICITY - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (bone marrow) - Category 1 |
| <b>GHS label elements</b>                         |  |
| <b>Hazard pictograms</b>                          | :  |
| <b>Signal word</b>                                | : Danger   |
| <b>Hazard statements</b>                          | : Highly flammable liquid and vapor.<br>May form explosive mixtures with air.<br>Causes serious eye irritation.<br>Causes skin irritation.<br>May cause genetic defects.<br>May cause cancer.<br>Causes damage to organs through prolonged or repeated exposure. (bone marrow)         |
| <b>Precautionary statements</b>                   |  |
| <b>General</b>                                    | : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.  |

## Section 2. Hazards identification

- Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
- Response** : Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- Storage** : Store locked up. Store in a well-ventilated place. Keep cool.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

- Substance/mixture** : Substance
- Chemical name** : benzene
- Other means of identification** : benzene, purebenzol; cyclohexatriene; phenyl hydride; phene; coal naphtha; pyrobenzol

### CAS number/other identifiers

- CAS number** : 71-43-2
- Product code** : 001062

| Ingredient name | %   | CAS number |
|-----------------|-----|------------|
| benzene         | 100 | 71-43-2    |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Section 4. First aid measures

- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation.
- Frostbite** : Try to warm up the frozen tissues and seek medical attention.
- Ingestion** : Harmful if swallowed. Irritating to mouth, throat and stomach.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name | Exposure limits   |
|-----------------|---|
| benzene         | <p><b>ACGIH TLV (United States, 3/2012).</b><br/> <b>Absorbed through skin.</b><br/>           STEL: 8 mg/m<sup>3</sup> 15 minutes.<br/>           STEL: 2.5 ppm 15 minutes.<br/>           TWA: 1.6 mg/m<sup>3</sup> 8 hours.<br/>           TWA: 0.5 ppm 8 hours.</p> <p><b>NIOSH REL (United States, 1/2013).</b><br/>           STEL: 1 ppm 15 minutes.<br/>           TWA: 0.1 ppm 10 hours.</p> <p><b>OSHA PEL (United States, 6/2010).</b><br/>           STEL: 5 ppm 15 minutes.<br/>           TWA: 1 ppm 8 hours.</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b><br/>           STEL: 5 ppm 15 minutes.<br/>           TWA: 1 ppm 8 hours.</p> <p><b>OSHA PEL Z2 (United States, 11/2006).</b><br/>           AMP: 50 ppm 10 minutes.<br/>           CEIL: 25 ppm<br/>           TWA: 10 ppm 8 hours.</p> |

## Section 8. Exposure controls/personal protection

- Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
- Individual protection measures**
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid. [Watery liquid.]
- Color** : Colorless. Yellowish.
- Molecular weight** : 78.12 g/mole
- Molecular formula** : C<sub>6</sub>-H<sub>6</sub>
- Boiling/condensation point** : 80.09°C (176.2°F)
- Melting/freezing point** : 5.49°C (41.9°F)
- Critical temperature** : 288.95°C (552.1°F)
- Odor** : Characteristic.
- Odor threshold** : Not available.

## Section 9. Physical and chemical properties

|   |  |
|---|--|
| <b>pH</b>   | : Not available.                                     |
| <b>Flash point</b>                                  | : Closed cup: -11°C (12.2°F)                         |
| <b>Burning time</b>                                 | : Not applicable.                                    |
| <b>Burning rate</b>                                 | : Not applicable.                                    |
| <b>Evaporation rate</b>                             | : 3.5 (butyl acetate = 1)                            |
| <b>Flammability (solid, gas)</b>                    | : Not available.                                     |
| <b>Lower and upper explosive (flammable) limits</b> | : Lower: 1.2%<br>Upper: 7.8%                         |
| <b>Vapor pressure</b>                               | : 10 kPa (75.006094245 mm Hg) [room temperature]     |
| <b>Vapor density</b>                                | : 2.7 (Air = 1)                                      |
| <b>Specific Volume (ft<sup>3</sup>/lb)</b>          | : 1.1403   |
| <b>Gas Density (lb/ft<sup>3</sup>)</b>              | : 0.877 (20°C / 68 to °F)                            |
| <b>Relative density</b>                             | : 0.88   |
| <b>Solubility</b>                                   | : Not available.                                     |
| <b>Solubility in water</b>                          | : 1.88 g/l   |
| <b>Partition coefficient: n-octanol/water</b>       | : 2.13   |
| <b>Auto-ignition temperature</b>                    | : 498°C (928.4°F)                                    |
| <b>Decomposition temperature</b>                    | : Not available.                                     |
| <b>SADT</b>   | : Not available.                                     |
| <b>Viscosity</b>                                    | : Dynamic (room temperature): 0.604 mPa·s (0.604 cP) |

## Section 10. Stability and reactivity

|  |  |
|--|--|
| <b>Reactivity</b>                              | : No specific test data related to reactivity available for this product or its ingredients.   |
| <b>Chemical stability</b>                      | : The product is stable.   |
| <b>Possibility of hazardous reactions</b>      | : Under normal conditions of storage and use, hazardous reactions will not occur.  |
| <b>Conditions to avoid</b>                     | : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. |
| <b>Incompatibility with various substances</b> | : Highly reactive or incompatible with the following materials: oxidizing materials.   |
| <b>Hazardous decomposition products</b>        | : Under normal conditions of storage and use, hazardous decomposition products should not be produced.   |
| <b>Hazardous polymerization</b>                | : Under normal conditions of storage and use, hazardous polymerization will not occur.   |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name | Result               | Species | Dose      | Exposure |
|-------------------------|----------------------|---------|-----------|----------|
| benzene                 | LC50 Inhalation Gas. | Rat     | 10000 ppm | 7 hours  |
|                         | LD50 Oral            | Rat     | 930 mg/kg | -        |

#### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure               | Observation |
|-------------------------|--------------------------|---------|-------|------------------------|-------------|
| benzene                 | Eyes - Moderate irritant | Rabbit  | -     | 88 milligrams          | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 2 milligrams  | -           |
|                         | Skin - Mild irritant     | Rat     | -     | 8 hours 60 microliters | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 24 hours 15 milligrams | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 milligrams | -           |

#### Sensitization

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Classification

| Product/ingredient name | OSHA | IARC | NTP                             |
|-------------------------|------|------|---------------------------------|
| benzene                 | +    | 1    | Known to be a human carcinogen. |

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

| Name    | Category   | Route of exposure | Target organs |
|---------|------------|-------------------|---------------|
| benzene | Category 1 | Not determined    | bone marrow   |

#### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

## Section 11. Toxicological information

- Skin contact** : Causes skin irritation.
- Ingestion** : Harmful if swallowed. Irritating to mouth, throat and stomach.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Potential chronic health effects

Not available.

- General** : Causes damage to organs through prolonged or repeated exposure.
- Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : May cause genetic defects.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

Not available.

### Persistence and degradability

Not available.

### Bioaccumulative potential

*Date of issue/Date of revision* : 4/26/2015. *Date of previous issue* : 10/16/2014. *Version* : 0.03 9/14

## Section 12. Ecological information

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| benzene                 | 2.13               | 11  | low       |

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### United States - RCRA Toxic hazardous waste "U" List

| Ingredient    | CAS #   | Status | Reference number |
|---------------|---------|--------|------------------|
| Benzene (I,T) | 71-43-2 | Listed | U019             |

## Section 14. Transport information

|                                   | DOT  | TDG   | Mexico   | IMDG   | IATA  |
|-----------------------------------|--|---|--|--|---|
| <b>UN number</b>                  | UN1114   | UN1114  | UN114  | UN1114   | UN1114  |
| <b>UN proper shipping name</b>    | BENZENE  | BENZENE   | BENZENE  | BENZENE  | BENZENE   |
| <b>Transport hazard class(es)</b> | 3<br>   | 3<br>                    | 3<br> | 3<br> | 3<br>  |
| <b>Packing group</b>              | II   | II  | II   | II   | II  |
| <b>Environment</b>                | No.  | No.   | No.  | No.  | No.   |
| <b>Additional information</b>     | <b>Reportable quantity</b><br>10 lbs / 4.54 kg [1.3675 gal / 5.1767 L]<br>Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. | <b>Explosive Limit and Limited Quantity Index</b><br>1<br><b>Passenger Carrying Road or Rail Index</b><br>5 | -  | -  | <b>Passenger and Cargo Aircraft</b> Quantity limitation: 5 L<br><b>Cargo Aircraft Only Limited Quantities - Passenger Aircraft</b> Quantity limitation: 1 L |

## Section 14. Transport information

|  |   |  |  |  |  |
|--|---|--|--|--|--|
|  | <u>Limited quantity</u><br>Yes.   |  |  |  |  |
|  | <u>Packaging instruction</u><br><b>Passenger aircraft</b><br>Quantity limitation: 5 L<br><br><b>Cargo aircraft</b><br>Quantity limitation: 60 L |  |  |  |  |
|  | <u>Special provisions</u><br>IB2, T4, TP1   |  |  |  |  |

“Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product.”

**Special precautions for user** : **Transport within user’s premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** This material is listed or exempted.  
**Clean Water Act (CWA) 307:** benzene  
**Clean Water Act (CWA) 311:** benzene

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Fire hazard  
 Immediate (acute) health hazard  
 Delayed (chronic) health hazard

#### Composition/information on ingredients

## Section 15. Regulatory information

| Name    | %   | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|---------|-----|-------------|----------------------------|----------|---------------------------------|---------------------------------|
| benzene | 100 | Yes.        | No.                        | No.      | Yes.                            | Yes.                            |

### SARA 313

|                                 | Product name | CAS number | %   |
|---------------------------------|--------------|------------|-----|
| Form R - Reporting requirements | benzene      | 71-43-2    | 100 |
| Supplier notification           | benzene      | 71-43-2    | 100 |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

- Massachusetts** : This material is listed.  
**New York** : This material is listed.  
**New Jersey** : This material is listed.  
**Pennsylvania** : This material is listed.

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

| Ingredient name | Cancer | Reproductive | No significant risk level                        | Maximum acceptable dosage level                 |
|-----------------|--------|--------------|--|---|
| benzene         | Yes.   | Yes.         | 6.4 µg/day (ingestion)<br>13 µg/day (inhalation) | 24 µg/day (ingestion)<br>49 µg/day (inhalation) |

- Canada inventory** : This material is listed or exempted.

### International regulations

- International lists** :
- Australia inventory (AICS):** This material is listed or exempted.
  - China inventory (IECSC):** This material is listed or exempted.
  - Japan inventory:** This material is listed or exempted.
  - Korea inventory:** This material is listed or exempted.
  - Malaysia Inventory (EHS Register):** Not determined.
  - New Zealand Inventory of Chemicals (NZIoC):** This material is listed or exempted.
  - Philippines inventory (PICCS):** This material is listed or exempted.
  - Taiwan inventory (CSNN):** Not determined.

- Chemical Weapons Convention List Schedule I Chemicals** : Not listed

- Chemical Weapons Convention List Schedule II Chemicals** : Not listed

- Chemical Weapons Convention List Schedule III Chemicals** : Not listed

### Canada

**Date of issue/Date of revision** : 4/26/2015. **Date of previous issue** : 10/16/2014. **Version** : 0.03 12/14

## Section 15. Regulatory information

- WHMIS (Canada)** : Class B-2: Flammable liquid  
 Class D-2A: Material causing other toxic effects (Very toxic).  
 Class D-2B: Material causing other toxic effects (Toxic).  
**CEPA Toxic substances:** This material is listed.  
**Canadian ARET:** This material is not listed.  
**Canadian NPRI:** This material is listed.  
**Alberta Designated Substances:** This material is not listed.  
**Ontario Designated Substances:** This material is not listed.  
**Quebec Designated Substances:** This material is not listed.

## Section 16. Other information

- Canada Label requirements** : Class B-2: Flammable liquid  
 Class D-2A: Material causing other toxic effects (Very toxic).  
 Class D-2B: Material causing other toxic effects (Toxic).

### Hazardous Material Information System (U.S.A.)

|                  |   |   |
|------------------|---|---|
| Health           | * | 2 |
| Flammability     |   | 3 |
| Physical hazards |   | 0 |
|                  |   |   |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### History

- Date of printing** : 4/26/2015.  
**Date of issue/Date of revision** : 4/26/2015.  
**Date of previous issue** : 10/16/2014.  
**Version** : 0.03

## Section 16. Other information

|                             |   |
|-----------------------------|---|
| <b>Key to abbreviations</b> | <ul style="list-style-type: none"> <li>: ATE = Acute Toxicity Estimate</li> <li>BCF = Bioconcentration Factor</li> <li>GHS = Globally Harmonized System of Classification and Labelling of Chemicals</li> <li>IATA = International Air Transport Association</li> <li>IBC = Intermediate Bulk Container</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>LogPow = logarithm of the octanol/water partition coefficient</li> <li>MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)</li> <li>UN = United Nations</li> <li>ACGIH – American Conference of Governmental Industrial Hygienists</li> <li>AIHA – American Industrial Hygiene Association</li> <li>CAS – Chemical Abstract Services</li> <li>CEPA – Canadian Environmental Protection Act</li> <li>CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act (EPA)</li> <li>CFR – United States Code of Federal Regulations</li> <li>CPR – Controlled Products Regulations</li> <li>DSL – Domestic Substances List</li> <li>GWP – Global Warming Potential</li> <li>IARC – International Agency for Research on Cancer</li> <li>ICAO – International Civil Aviation Organisation</li> <li>Inh – Inhalation</li> <li>LC – Lethal concentration</li> <li>LD – Lethal dosage</li> <li>NDSL – Non-Domestic Substances List</li> <li>NIOSH – National Institute for Occupational Safety and Health</li> <li>TDG – Canadian Transportation of Dangerous Goods Act and Regulations</li> <li>TLV – Threshold Limit Value</li> <li>TSCA – Toxic Substances Control Act</li> <li>WEEL – Workplace Environmental Exposure Level</li> <li>WHMIS – Canadian Workplace Hazardous Material Information System</li> </ul> |
|-----------------------------|---|

**References** : Not available.

 Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



# SAFETY DATA SHEET

Creation Date 25-Aug-2010

Revision Date 23-Oct-2014

Revision Number 1

## 1. Identification

**Product Name** Cyclohexanone

**Cat No. :** AC406090000, AC406090010, AC406090025, AC406092500

**Synonyms** Ketohexamethylene; Pimelic ketone.

**Recommended Use** Laboratory chemicals.

**Uses advised against** No Information available

**Details of the supplier of the safety data sheet**

| Company   | Entity / Business Name                                    | Emergency Telephone Number  |
|---|---|---|
| Fisher Scientific<br>One Reagent Lane<br>Fair Lawn, NJ 07410<br>Tel: (201) 796-7100 | Acros Organics<br>One Reagent Lane<br>Fair Lawn, NJ 07410 | For information <b>US</b> call: 001-800-ACROS-01<br>/ <b>Europe</b> call: +32 14 57 52 11<br>Emergency Number <b>US</b> :001-201-796-7100 /<br><b>Europe</b> : +32 14 57 52 99<br><b>CHEMTREC</b> Tel. No. <b>US</b> :001-800-424-9300 /<br><b>Europe</b> :001-703-527-3887 |

## 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|   |            |
|---|------------|
| Flammable liquids   | Category 3 |
| Acute oral toxicity   | Category 4 |
| Acute dermal toxicity   | Category 3 |
| Acute Inhalation Toxicity - Vapors                                | Category 4 |
| Skin Corrosion/Irritation   | Category 2 |
| Serious Eye Damage/Eye Irritation                                 | Category 1 |
| Specific target organ toxicity (single exposure)                  | Category 3 |
| Target Organs - Respiratory system, Central nervous system (CNS). |            |
| Specific target organ toxicity - (repeated exposure)              | Category 2 |
| Target Organs - Liver, Kidney.                                    |            |

### Label Elements

#### Signal Word

Danger

#### Hazard Statements

Flammable liquid and vapor

Harmful if swallowed  
Toxic in contact with skin  
Harmful if inhaled  
Causes skin irritation  
Causes serious eye damage  
May cause respiratory irritation  
May cause drowsiness or dizziness  
May cause damage to organs through prolonged or repeated exposure



### Precautionary Statements

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Wear protective gloves/protective clothing/eye protection/face protection  
Use only outdoors or in a well-ventilated area  
Do not breathe dust/fume/gas/mist/vapors/spray  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
Keep container tightly closed  
Ground/bond container and receiving equipment  
Use explosion-proof electrical/ventilating/lighting/equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge  
Keep cool

#### Response

Get medical attention/advice if you feel unwell

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Call a POISON CENTER or doctor/physician if you feel unwell

#### Skin

Call a POISON CENTER or doctor/physician if you feel unwell  
If skin irritation occurs: Get medical advice/attention  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
Wash contaminated clothing before reuse

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Immediately call a POISON CENTER or doctor/physician

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth

#### Fire

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

#### Storage

Store in a well-ventilated place. Keep container tightly closed  
Store locked up

#### Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

May form explosive peroxides

## 3. Composition / information on ingredients

| Component     | CAS-No   | Weight % |
|---------------|----------|----------|
| Cyclohexanone | 108-94-1 | >95      |

#### 4. First-aid measures

|  |   |
|--|---|
| <b>Eye Contact</b>                     | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.   |
| <b>Skin Contact</b>                    | Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.   |
| <b>Inhalation</b>                      | Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required. |
| <b>Ingestion</b>                       | Do not induce vomiting. Call a physician or Poison Control Center immediately.  |
| <b>Most important symptoms/effects</b> | Breathing difficulties. Causes eye burns. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting   |
| <b>Notes to Physician</b>              | Treat symptomatically   |

#### 5. Fire-fighting measures

|   |  |
|---|--|
| <b>Suitable Extinguishing Media</b>     | CO <sub>2</sub> , dry chemical, dry sand, alcohol-resistant foam. Cool closed containers exposed to fire with water spray. |
| <b>Unsuitable Extinguishing Media</b>   | Water may be ineffective   |
| <b>Flash Point</b>                      | 43 °C / 109 °F   |
| <b>Method -</b>                         | Closed cup   |
| <b>Autoignition Temperature</b>         | 520 °C / 968 °F  |
| <b>Explosion Limits</b>                 |  |
| <b>Upper</b>                            | 9.4 vol %  |
| <b>Lower</b>                            | 1.10 vol %   |
| <b>Sensitivity to Mechanical Impact</b> | No information available   |
| <b>Sensitivity to Static Discharge</b>  | No information available   |

#### Specific Hazards Arising from the Chemical

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

#### Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>)

#### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

#### NFPA

|               |                     |                    |                         |
|---------------|---------------------|--------------------|-------------------------|
| <b>Health</b> | <b>Flammability</b> | <b>Instability</b> | <b>Physical hazards</b> |
| 1             | 2                   | 0                  | N/A                     |

#### 6. Accidental release measures

|                                  |   |
|----------------------------------|---|
| <b>Personal Precautions</b>      | Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges. Avoid contact with skin, eyes and inhalation of vapors. |
| <b>Environmental Precautions</b> | Avoid release to the environment. See Section 12 for additional ecological information.   |

**Methods for Containment and Clean Up** Remove all sources of ignition. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Use spark-proof tools and explosion-proof equipment.

## 7. Handling and storage

**Handling** Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist. Do not ingest. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use explosion-proof equipment. Take precautionary measures against static discharges. If peroxide formation is suspected, do not open or move container.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. May form explosive peroxides on prolonged storage. Should crystals form in a peroxidizable liquid, peroxidation may have occurred and the product should be considered extremely dangerous. In this instance, the container should only be opened remotely by professionals. Flammables area.

## 8. Exposure controls / personal protection

### Exposure Guidelines

| Component     | ACGIH TLV                           | OSHA PEL   | NIOSH IDLH   |
|---------------|-------------------------------------|--|--|
| Cyclohexanone | TWA: 20 ppm<br>STEL: 50 ppm<br>Skin | (Vacated) TWA: 25 ppm<br>(Vacated) TWA: 100 mg/m <sup>3</sup><br>Skin<br>TWA: 50 ppm<br>TWA: 200 mg/m <sup>3</sup> | IDLH: 700 ppm<br>TWA: 25 ppm<br>TWA: 100 mg/m <sup>3</sup> |

| Component     | Quebec  | Mexico OEL (TWA)  | Ontario TWA/EV                      |
|---------------|---|---|-------------------------------------|
| Cyclohexanone | TWA: 25 ppm<br>TWA: 100 mg/m <sup>3</sup><br>Skin | TWA: 50 ppm<br>TWA: 200 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 400 mg/m <sup>3</sup> | TWA: 20 ppm<br>STEL: 50 ppm<br>Skin |

### Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

**Engineering Measures** Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal Protective Equipment

#### Eye/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

|                            |                            |
|----------------------------|----------------------------|
| <b>Physical State</b>      | Liquid                     |
| <b>Appearance</b>          | Colorless                  |
| <b>Odor</b>                | mint-like                  |
| <b>Odor Threshold</b>      | 0.12 ppm                   |
| <b>pH</b>                  | Not applicable             |
| <b>Melting Point/Range</b> | -47 °C / -52.6 °F          |
| <b>Boiling Point/Range</b> | 155 °C / 311 °F @ 760 mmHg |
| <b>Flash Point</b>         | 43 °C / 109 °F             |
| <b>Method -</b>            | Closed cup                 |

|  |                          |
|--|--------------------------|
| Evaporation Rate                       | No information available |
| Flammability (solid,gas)               | Not applicable           |
| Flammability or explosive limits       |                          |
| Upper                                  | 9.4 vol %                |
| Lower                                  | 1.10 vol %               |
| Vapor Pressure                         | 4.5 mbar @ 20 °C         |
| Vapor Density                          | 3.4                      |
| Relative Density                       | 0.947                    |
| Solubility                             | No information available |
| Partition coefficient; n-octanol/water | No data available        |
| Autoignition Temperature               | 520 °C / 968 °F          |
| Decomposition Temperature              | No information available |
| Viscosity                              | 2.2 mPas @ 20°C          |
| Molecular Formula                      | C6 H10 O                 |
| Molecular Weight                       | 98.14                    |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactive Hazard</b>                  | None known, based on information available  |
| <b>Stability</b>                        | Stable under normal conditions. May form explosive peroxides.   |
| <b>Conditions to Avoid</b>              | Incompatible products. Heat, flames and sparks. The presence of oxygen or prolonged standing in or exposure to direct sunlight may lead to formation of unstable peroxides, which may explode spontaneously or when heated. |
| <b>Incompatible Materials</b>           | Strong oxidizing agents, Strong acids   |
| <b>Hazardous Decomposition Products</b> | Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )   |
| <b>Hazardous Polymerization</b>         | Hazardous polymerization does not occur.  |
| <b>Hazardous Reactions</b>              | None under normal processing.   |

## 11. Toxicological information

### Acute Toxicity

#### Product Information Component Information

| Component     | LD50 Oral          | LD50 Dermal          | LC50 Inhalation      |
|---------------|--------------------|----------------------|----------------------|
| Cyclohexanone | 1544 mg/kg ( Rat ) | 947 mg/kg ( Rabbit ) | 8000 ppm ( Rat ) 4 h |

**Toxicologically Synergistic Products** No information available

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                        |  |
|------------------------|--|
| <b>Irritation</b>      | Causes eye burns; Irritating to skin   |
| <b>Sensitization</b>   | No information available   |
| <b>Carcinogenicity</b> | The table below indicates whether each agency has listed any ingredient as a carcinogen. |

| Component     | CAS-No   | IARC    | NTP        | ACGIH | OSHA       | Mexico     |
|---------------|----------|---------|------------|-------|------------|------------|
| Cyclohexanone | 108-94-1 | group 3 | Not listed | A3    | Not listed | Not listed |

**Mutagenic Effects** No information available

**Reproductive Effects** Experiments have shown reproductive toxicity effects on laboratory animals.

**Developmental Effects** Developmental effects have occurred in experimental animals.

**Teratogenicity** Teratogenic effects have occurred in experimental animals.

**STOT - single exposure** Respiratory system Central nervous system (CNS)  
**STOT - repeated exposure** Liver Kidney

**Aspiration hazard** No information available

**Symptoms / effects, both acute and delayed** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

**Endocrine Disruptor Information** No information available

**Other Adverse Effects** See actual entry in RTECS for complete information.

## 12. Ecological information

### Ecotoxicity

Do not empty into drains.

| Component     | Freshwater Algae | Freshwater Fish                     | Microtox  | Water Flea |
|---------------|------------------|-------------------------------------|---|------------|
| Cyclohexanone | Not listed       | Leusiscus idus:<br>LC50>500mg/L 48h | EC50 = 18.5 mg/L 5 min<br>EC50 = 21.3 mg/L 10 min<br>EC50 = 25 mg/L 5 min | Not listed |

**Persistence and Degradability** Insoluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** No information available.

**Mobility** Is not likely mobile in the environment due its low water solubility.

| Component     | log Pow |
|---------------|---------|
| Cyclohexanone | 0.86    |

## 13. Disposal considerations

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

| Component                | RCRA - U Series Wastes | RCRA - P Series Wastes |
|--------------------------|------------------------|------------------------|
| Cyclohexanone - 108-94-1 | U057                   | -                      |

## 14. Transport information

### DOT

**UN-No** UN1915  
**Proper Shipping Name** CYCLOHEXANONE  
**Hazard Class** 3  
**Packing Group** III

### TDG

**UN-No** UN1915  
**Proper Shipping Name** CYCLOHEXANONE  
**Hazard Class** 3  
**Packing Group** III

### IATA

**UN-No** UN1915  
**Proper Shipping Name** CYCLOHEXANONE  
**Hazard Class** 3  
**Packing Group** III

### IMDG/IMO

**UN-No** UN1915  
**Proper Shipping Name** CYCLOHEXANONE  
**Hazard Class** 3  
**Packing Group** III

## 15. Regulatory information

### International Inventories

| Component     | TSCA | DSL | NDSL | EINECS    | ELINCS | NLP | PICCS | ENCS | AICS | IECSC | KECL |
|---------------|------|-----|------|-----------|--------|-----|-------|------|------|-------|------|
| Cyclohexanone | X    | X   | -    | 203-631-1 | -      |     | X     | X    | X    | X     | X    |

#### Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

### U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

#### SARA 311/312 Hazardous Categorization

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | Yes |
| Chronic Health Hazard             | No  |
| Fire Hazard                       | Yes |
| Sudden Release of Pressure Hazard | No  |
| Reactive Hazard                   | No  |

Clean Water Act Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration  
Not applicable

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Component     | Hazardous Substances RQs | CERCLA EHS RQs |
|---------------|--------------------------|----------------|
| Cyclohexanone | 5000 lb                  | -              |

California Proposition 65 This product does not contain any Proposition 65 chemicals

#### State Right-to-Know

| Component     | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|---------------|---------------|------------|--------------|----------|--------------|
| Cyclohexanone | X             | X          | X            | X        | X            |

### U.S. Department of Transportation

|                             |   |
|-----------------------------|---|
| Reportable Quantity (RQ):   | N |
| DOT Marine Pollutant        | N |
| DOT Severe Marine Pollutant | N |

**U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

**Other International Regulations**

**Mexico - Grade** No information available

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

**WHMIS Hazard Class** B3 Combustible liquid  
D1B Toxic materials  
D2B Toxic materials

**16. Other information**

**Prepared By** Regulatory Affairs  
Thermo Fisher Scientific  
Email: EMSDS.RA@thermofisher.com

**Creation Date** 25-Aug-2010  
**Revision Date** 23-Oct-2014  
**Print Date** 23-Oct-2014  
**Revision Summary** This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

**Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of SDS**



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## Safety Data Sheet

**Material Name: ETHYL BENZENE**

**SDS ID: MAT08780**

### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name**

ETHYL BENZENE

**Synonyms**

MTG MSDS 185; EB; PHENYLETHANE; ETHYLBENZENE; ETHYLBENZOL; ALPHA-METHYLTOLUENE; UN 1175; C8H10

**Chemical Family**

Hydrocarbons, aromatic

**Product Use**

industrial.

**Restrictions on Use**

None known.

**Details of the supplier of the safety data sheet**

MATHESON TRI-GAS, INC.

150 Allen Road, Suite 302

Basking Ridge, NJ 07920

General Information: 1-800-416-2505

Emergency #: 1-800-424-9300 (CHEMTREC)

Outside the US: 703-527-3887 (Call collect)

### Section 2 - HAZARDS IDENTIFICATION

**Classification in accordance with paragraph (d) of 29 CFR 1910.1200.**

Flammable Liquids - Category 2

Aspiration Hazard - Category 1

Acute Toxicity - Inhalation - Dust/Mist - Category 4

Acute Toxicity - Inhalation - Vapor - Category 4

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2A

Carcinogenicity - Category 2

Reproductive Toxicity - Category 1B

Specific target organ toxicity - Single exposure - Category 2

Specific target organ toxicity - Single exposure - Category 3

Specific Target Organ Toxicity - Repeated Exposure - Category 2 ( ears , Ears )

Hazardous to the Aquatic Environment - Acute - Category 2

Hazardous to the Aquatic Environment - Chronic - Category 2

**GHS Label Elements**

**Symbol(s)**



**Signal Word**

Danger

**Hazard Statement(s)**



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## Safety Data Sheet

**Material Name: ETHYL BENZENE**

**SDS ID: MAT08780**

Highly flammable liquid and vapor.  
Harmful if inhaled.  
Causes skin irritation.  
Causes serious eye irritation.  
Suspected of causing cancer.  
May damage fertility or the unborn child.  
May cause damage to organs. (central nervous system )  
May cause respiratory irritation.  
May be fatal if swallowed and enters airways.  
Toxic to aquatic life.

### **Precautionary Statement(s)**

#### **Prevention**

Keep away from heat, sparks, open flame, and hot surfaces - No smoking.  
Keep container tightly closed.  
Ground/Bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Use Personal Protective equipment as required.  
Do not breathe vapor or mist.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves and eye/face protection.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Avoid release to the environment.

#### **Response**

In case of fire, use media appropriate for extinction.  
IF exposed or concerned: Get medical advice/attention.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If skin irritation occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
Do NOT induce vomiting.

#### **Storage**

Store in a well-ventilated place.  
Keep cool.  
Keep container tightly closed.  
Store locked up.

#### **Disposal**

Dispose in accordance with all applicable regulations.

#### **Statement(s) of Unknown Acute Toxicity**

Inhalation 0% of the mixture consists of ingredient(s) of unknown acute toxicity.



## Safety Data Sheet

**Material Name: ETHYL BENZENE****SDS ID: MAT08780****Statement(s) of Unknown Aquatic Toxicity**

0% of the mixture consists of ingredient(s) of unknown acute aquatic toxicity.

0% of the mixture consists of ingredient(s) of unknown chronic aquatic toxicity.

**Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

| CAS      | Component Name | Percent |
|----------|----------------|---------|
| 100-41-4 | ETHYL BENZENE  | 100     |

**Section 4 - FIRST AID MEASURES****Inhalation**

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

**Skin**

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

**Eyes**

Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Then get immediate medical attention.

**Ingestion**

aspiration hazard. Do NOT induce vomiting. When vomiting occurs, keep head lower than hips to help prevent aspiration. Get medical attention immediately. Give artificial respiration if not breathing.

**Most Important Symptoms/Effects****Acute**

respiratory tract irritation, skin irritation, eye irritation, central nervous system damage, lung damage (from aspiration)

**Delayed**

cancer, Reproductive Effects

**Note to Physicians**

For inhalation, consider oxygen.

**Section 5 - FIRE FIGHTING MEASURES****Extinguishing Media****Suitable Extinguishing Media**

regular dry chemical, carbon dioxide, water spray, regular foam, Large fires: Use water spray, fog or regular foam.

**Unsuitable Extinguishing Media**

Do not use high-pressure water streams.

**Special Hazards Arising from the Chemical**

Severe fire hazard. Vapor/air mixtures are explosive above flash point. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Electrostatic discharges may be generated by flow or agitation resulting in ignition or explosion.

**Hazardous Combustion Products**

Oxides of carbon

**Fire Fighting Measures**

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. If this is impossible then take the following precautions: Keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank,



## Safety Data Sheet

**Material Name: ETHYL BENZENE****SDS ID: MAT08780**

rail car or tank truck: Evacuation radius: 800 meters (1/2 mile). Do not attempt to extinguish fire unless flow of material can be stopped first. Flood with fine water spray. Do not scatter spilled material with high-pressure water streams. Cool containers with water spray until well after the fire is out. Apply water from a protected location or from a safe distance. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Water may be ineffective.

**Special Protective Equipment and Precautions for Firefighters**

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

**Section 6 - ACCIDENTAL RELEASE MEASURES****Personal Precautions, Protective Equipment and Emergency Procedures**

Wear personal protective clothing and equipment, see Section 8.

**Methods and Materials for Containment and Cleaning Up**

Avoid heat, flames, sparks and other sources of ignition. Eliminate all ignition sources if safe to do so. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if possible without personal risk. Prevent entry into waterways, sewers, basements, or confined areas. Reduce vapors with water spray. Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Dike for later disposal. Remove sources of ignition. Use water spray to reduce vapors or divert vapor cloud drift. Keep unnecessary people away, isolate hazard area and deny entry. Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).

**Environmental Precautions**

Avoid release to the environment.

**Section 7 - HANDLING AND STORAGE****Precautions for Safe Handling**

Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use Personal Protective equipment as required. Do not breathe vapor or mist. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection. Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product. Avoid release to the environment.

**Conditions for Safe Storage, Including any Incompatibilities**

Store in a well-ventilated place.

Keep cool.

Keep container tightly closed.

Store locked up.

Store and handle in accordance with all current regulations and standards. Store in a well-ventilated area. Keep cool. Keep container tightly closed. Keep locked up. Grounding and bonding required. Keep separated from incompatible substances. Protect from physical damage. Store outside or in a detached building. Store with flammable liquids. Subject to storage regulations: U.S. OSHA 29 CFR 1910.106.

**Incompatible Materials**

Acids, bases, oxidizing materials, combustible materials

**Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION****Component Exposure Limits****ETHYL BENZENE****100-41-4**



### Safety Data Sheet

**Material Name: ETHYL BENZENE**

**SDS ID: MAT08780**

|            |  |
|------------|--|
| ACGIH:     | 20 ppm TWA   |
| NIOSH:     | 100 ppm TWA ; 435 mg/m3 TWA                        |
|            | 125 ppm STEL ; 545 mg/m3 STEL                      |
|            | 800 ppm IDLH (10% LEL )                            |
| Europe:    | 100 ppm TWA ; 442 mg/m3 TWA                        |
|            | Possibility of significant uptake through the skin |
|            | 200 ppm STEL ; 884 mg/m3 STEL                      |
| OSHA (US): | 100 ppm TWA ; 435 mg/m3 TWA                        |
| Mexico:    | 100 ppm TWA VLE-PPT ; 435 mg/m3 TWA VLE-PPT        |
|            | 125 ppm STEL [PPT-CT ] ; 545 mg/m3 STEL [PPT-CT ]  |

**ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)**

**ETHYL BENZENE (100-41-4)**

0.15 g/g creatinine Medium: urine Time: end of shift Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific )

**Engineering Controls**

Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/face protection**

Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**Skin Protection**

Wear appropriate chemical resistant clothing.

**Respiratory Protection**

The following respirators and maximum use concentrations are drawn from NIOSH and/or OSHA. 800 ppm. Any air-purifying half-mask respirator equipped with organic vapor cartridge(s). Any air-purifying full-facepiece respirator (gas mask) with a chin-style, front-mounted or back-mounted organic vapor canister. Any powered, air-purifying respirator with organic vapor cartridge(s). Any supplied-air respirator. Any self-contained breathing apparatus with a full facepiece. Emergency or planned entry into unknown concentrations or IDLH conditions -. Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode. Escape -. Any air-purifying full-facepiece respirator (gas mask) with a chin-style, front-mounted or back-mounted organic vapor canister. Any appropriate escape-type, self-contained breathing apparatus. Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode. Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

**Glove Recommendations**

Wear appropriate chemical resistant gloves.



## Safety Data Sheet

Material Name: ETHYL BENZENE

SDS ID: MAT08780

**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

|                                 |                         |   |  |
|---------------------------------|-------------------------|---|--|
| <b>Appearance</b>               | Clear, colorless liquid | <b>Physical State</b>                         | liquid   |
| <b>Odor</b>                     | aromatic odor           | <b>Color</b>                                  | colorless  |
| <b>Odor Threshold</b>           | 140 ppm                 | <b>pH</b>                                     | Not available  |
| <b>Melting Point</b>            | -95 °C (-139 °F)        | <b>Boiling Point</b>                          | 136 °C (277 °F)  |
| <b>Boiling Point Range</b>      | Not available           | <b>Freezing point</b>                         | Not available  |
| <b>Evaporation Rate</b>         | <1 (Butyl acetate = 1)  | <b>Flammability (solid, gas)</b>              | Not available  |
| <b>Autoignition Temperature</b> | 432 °C (810 °F)         | <b>Flash Point</b>                            | 15 °C Closed Cup (59 °F)   |
| <b>Lower Explosive Limit</b>    | 0.8 %                   | <b>Decomposition temperature</b>              | Not available  |
| <b>Upper Explosive Limit</b>    | 6.7 %                   | <b>Vapor Pressure</b>                         | 7.1 mmHg @ 20 °C   |
| <b>Vapor Density (air=1)</b>    | 3.66                    | <b>Specific Gravity (water=1)</b>             | 0.867  |
| <b>Water Solubility</b>         | 0.015 %                 | <b>Partition coefficient: n-octanol/water</b> | 154170.05  |
| <b>Viscosity</b>                | 0.64 cp                 | <b>Kinematic viscosity</b>                    | Not available  |
| <b>Solubility (Other)</b>       | Not available           | <b>Bioconcentration Factor (BCF)</b>          | 36.39  |
| <b>Density</b>                  | Not available           | <b>Henry's Law Constant</b>                   | 0.00788 atm-m <sup>3</sup> /mole                                   |
| <b>KOC</b>                      | 520 (Estimated)         | <b>Physical Form</b>                          | liquid   |
| <b>Volatility</b>               | 100 %                   | <b>Molecular Formula</b>                      | C-H <sub>3</sub> -C-H <sub>2</sub> -C <sub>6</sub> -H <sub>5</sub> |
| <b>Molecular Weight</b>         | 106.17                  | <b>OSHA Flammability Class</b>                | IB   |

**Solvent Solubility****Soluble**

alcohol, ether, Benzene, sulfur dioxide, carbon tetrachloride

**Insoluble**

ammonia

**Section 10 - STABILITY AND REACTIVITY****Reactivity**

No reactivity hazard is expected.

**Chemical Stability**

Stable at normal temperatures and pressure.



## Safety Data Sheet

**Material Name: ETHYL BENZENE****SDS ID: MAT08780****Possibility of Hazardous Reactions**

Will not polymerize.

**Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat. Keep out of water supplies and sewers.

**Incompatible Materials**

Acids, bases, oxidizing materials, combustible materials

**Hazardous decomposition products**

Oxides of carbon

**Section 11 - TOXICOLOGICAL INFORMATION****Information on Likely Routes of Exposure****Inhalation**

irritation (possibly severe), chest pain, difficulty breathing, emotional disturbances, headache, drowsiness, dizziness, loss of coordination, coma, cancer

**Skin Contact**

irritation

**Eye Contact**

irritation

**Ingestion**

nausea, vomiting, stomach pain, aspiration hazard

**Acute and Chronic Toxicity****Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and the following selected endpoints are published:

**ETHYL BENZENE (100-41-4)**

Oral LD50 Rat 3500 mg/kg

Dermal LD50 Rabbit 15400 mg/kg

Inhalation LC50 Rat 17.4 mg/L 4 h

**Product Toxicity Data****Acute Toxicity Estimate**

|                    |              |
|--------------------|--------------|
| Dermal             | > 2000 mg/kg |
| Inhalation - Vapor | 17.4 mg/L    |
| Oral               | > 2000 mg/kg |

**Immediate Effects**

respiratory tract irritation, skin irritation, eye irritation, central nervous system damage, lung damage (from aspiration)

**Delayed Effects**

Reproductive Effects, cancer

**Irritation/Corrosivity Data**

respiratory tract irritation, skin irritation, eye irritation

**Respiratory Sensitization**

No data available.

**Dermal Sensitization**

No data available.

**Component Carcinogenicity**



## Safety Data Sheet

**Material Name: ETHYL BENZENE****SDS ID: MAT08780**

|                      |   |
|----------------------|---|
| <b>ETHYL BENZENE</b> | <b>100-41-4</b>   |
| ACGIH:               | A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans |
| IARC:                | Monograph 77 [2000] (Group 2B (possibly carcinogenic to humans))  |
| DFG:                 | Category 4 (no significant contribution to human cancer )         |
| OSHA:                | Present   |

**Germ Cell Mutagenicity**

No data available.

**Tumorigenic Data**

No data available

**Reproductive Toxicity**

Available data characterizes components of this product as reproductive hazards.

**Specific Target Organ Toxicity - Single Exposure**

central nervous system, Respiratory system

**Specific Target Organ Toxicity - Repeated Exposure**

No target organs identified.

**Aspiration hazard**

This material is an aspiration hazard.

**Medical Conditions Aggravated by Exposure**

kidney disorders, liver disorders, respiratory disorders, skin disorders and allergies

**Additional Data**

May cross the placenta.

**Section 12 - ECOLOGICAL INFORMATION****Ecotoxicity**

Toxic to aquatic life.

**Component Analysis - Aquatic Toxicity**

|                      |   |
|----------------------|---|
| <b>ETHYL BENZENE</b> | <b>100-41-4</b>   |
| Fish:                | LC50 96 h Oncorhynchus mykiss 11 - 18 mg/L [static ]; LC50 96 h Oncorhynchus mykiss 4.2 mg/L [semi-static ]; LC50 96 h Pimephales promelas 7.55 - 11 mg/L [flow-through ]; LC50 96 h Lepomis macrochirus 32 mg/L [static ]; LC50 96 h Pimephales promelas 9.1 - 15.6 mg/L [static ]; LC50 96 h Poecilia reticulata 9.6 mg/L [static ] |
| Algae:               | EC50 72 h Pseudokirchneriella subcapitata 4.6 mg/L IUCLID ; EC50 96 h Pseudokirchneriella subcapitata >438 mg/L IUCLID ; EC50 72 h Pseudokirchneriella subcapitata 2.6 - 11.3 mg/L [static ] EPA ; EC50 96 h Pseudokirchneriella subcapitata 1.7 - 7.6 mg/L [static ] EPA   |
| Invertebrate:        | EC50 48 h Daphnia magna 1.8 - 2.4 mg/L IUCLID   |

**Persistence and Degradability**

Not expected to undergo hydrolysis in the environment.

**Bioaccumulative Potential**

Bioconcentration potential in aquatic organisms is low based on a BCF value of 15.

**Mobility**



### Safety Data Sheet

**Material Name: ETHYL BENZENE**

**SDS ID: MAT08780**

Expected to have moderate mobility in soil.

**Section 13 - DISPOSAL CONSIDERATIONS**

**Disposal Methods**

Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262.

Hazardous Waste Number(s): D001.

**Component Waste Numbers**

The U.S. EPA has not published waste numbers for this product's components.

**Section 14 - TRANSPORT INFORMATION**

**US DOT Information:**

**Shipping Name:** ETHYLBENZENE

**Hazard Class:** 3

**UN/NA #:** UN1175

**Packing Group:** II

**Required Label(s):** 3

Marine pollutant

**IMDG Information:**

**Shipping Name:** ETHYLBENZENE

**Hazard Class:** 3

**UN#:** UN1175

**Packing Group:** II

**Required Label(s):** 3

Marine pollutant

**International Bulk Chemical Code**

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

|                      |                 |
|----------------------|-----------------|
| <b>ETHYL BENZENE</b> | <b>100-41-4</b> |
| IBC Code:            | Category Y      |

**Section 15 - REGULATORY INFORMATION**

**U.S. Federal Regulations**

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

|                      |                                    |
|----------------------|------------------------------------|
| <b>ETHYL BENZENE</b> | <b>100-41-4</b>                    |
| SARA 313:            | 0.1 % de minimis concentration     |
| CERCLA:              | 1000 lb final RQ ; 454 kg final RQ |

**SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories**

Flammable; Carcinogenicity; Acute toxicity; Reproductive Toxicity; Skin Corrosion/Irritation; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity; Aspiration Hazard

**U.S. State Regulations**

The following components appear on one or more of the following state hazardous substances lists:



## Safety Data Sheet

**Material Name: ETHYL BENZENE****SDS ID: MAT08780**

| Component            | CAS             | CA  | MA  | MN  | NJ  | PA  |
|----------------------|-----------------|-----|-----|-----|-----|-----|
| <b>ETHYL BENZENE</b> | <b>100-41-4</b> | Yes | Yes | Yes | Yes | Yes |

**The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):**

WARNING! This product contains a chemical known to the state of California to cause cancer

|                      |                        |
|----------------------|------------------------|
| <b>ETHYL BENZENE</b> | <b>100-41-4</b>        |
| Carc:                | carcinogen , 6/11/2004 |

**Canada Regulations****Canadian WHMIS Ingredient Disclosure List (IDL)**

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

|                      |                 |
|----------------------|-----------------|
| <b>ETHYL BENZENE</b> | <b>100-41-4</b> |
|                      | 0.1 %           |

**WHMIS Classification**

B2

**Component Analysis - Inventory****ETHYL BENZENE (100-41-4)**

| US  | CA  | EU  | AU  | PH  | JP - ENCS | JP - ISHL | KR KECI - Annex 1 | KR KECI - Annex 2 | KR - REACH CCA | CN  | NZ  | MX  | TW  | VN - NCI (Draft) |
|-----|-----|-----|-----|-----|-----------|-----------|-------------------|-------------------|----------------|-----|-----|-----|-----|------------------|
| Yes | DSL | EIN | Yes | Yes | Yes       | Yes       | Yes               | No                | No             | Yes | Yes | Yes | Yes | Yes              |

**Section 16 - OTHER INFORMATION****NFPA Ratings**

Health: 2 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**Summary of Changes**

Updated: 05/01/2015

**Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research



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## Safety Data Sheet

**Material Name: ETHYL BENZENE**

**SDS ID: MAT08780**

on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX – Mexico; NDSL – Non-Domestic Substance List (Canada); NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN NCI (Draft) - Vietnam National Chemicals Inventory (NCI) (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada) .

### **Other Information**

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# SAFETY DATA SHEET

According to US Regulation 29 CFR 1910.1200 (HazCom 2012)

## 1. Identification

**Product identifier:** Ethyl Ether

### Other means of identification

**Synonyms:** Diethyl ether; 1,1'-Oxybisethane; Diethyl oxide  
**Product No.:** 0847, 0848, 9238, 9244, 9246, 9250

### Recommended restrictions

**Recommended use:** For Laboratory, Research or Manufacturing Use.  
**Restrictions on use:** Not determined.

### Details of the supplier of the safety data sheet

**Company Name:** Avantor Performance Materials, LLC  
**Address:** 100 Matsonford Rd, Suite 200  
Radnor, PA 19087

**Telephone:** Customer Service: 855-282-6867

**Contact Person:** Product Information Compliance  
**E-mail:** info@avantormaterials.com

### Emergency telephone number:

CHEMTREC: 1-800-424-9300 within US and Canada

## 2. Hazard(s) identification

### Hazard Classification

#### Physical Hazards

Flammable liquids Category 1

#### Health Hazards

Acute toxicity (Oral) Category 4  
Skin Corrosion/Irritation Category 2  
Serious Eye Damage/Eye Irritation Category 2A  
Toxic to reproduction Category 2  
Specific Target Organ Toxicity -  
Single Exposure Category 3<sup>1</sup>

#### Target Organs

1. Narcotic effect.

#### Unknown toxicity - Health

Acute toxicity, inhalation, vapor 100 %

### Label Elements

**Hazard Symbol:**



**Signal Word:** Danger

**Hazard Statement:** Extremely flammable liquid and vapor.  
Harmful if swallowed.  
Causes skin irritation.  
Causes serious eye irritation.  
Suspected of damaging fertility or the unborn child.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.

**Precautionary Statements**

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting] equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

**Response:** Specific treatment (see on this label). In case of fire: Use water for extinction. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention.

**Storage:** Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Hazard(s) not otherwise classified (HNOC):** Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

**3. Composition/information on ingredients**

**Substances**

| Chemical Identity | CAS number | Content in percent (%)* |
|-------------------|------------|-------------------------|
| Diethyl ether     | 60-29-7    | 99 - 100%               |

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

|                             |  |
|-----------------------------|--|
| <b>General information:</b> | Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.  |
| <b>Ingestion:</b>           | Call a physician or poison control center immediately. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.   |
| <b>Inhalation:</b>          | Move to fresh air. Get medical attention immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen.  |
| <b>Skin Contact:</b>        | Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes. |
| <b>Eye contact:</b>         | Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.   |

#### Most important symptoms/effects, acute and delayed

|                  |  |
|------------------|--|
| <b>Symptoms:</b> | Harmful if swallowed. Irritating to eyes, respiratory system and skin. |
| <b>Hazards:</b>  | None known.  |

#### Indication of immediate medical attention and special treatment needed

|                   |   |
|-------------------|---|
| <b>Treatment:</b> | Treat symptomatically. Symptoms may be delayed. |
|-------------------|---|

#### 5. Fire-fighting measures

|                              |   |
|------------------------------|---|
| <b>General Fire Hazards:</b> | Flammable liquid and vapor. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. |
|------------------------------|---|

#### Suitable (and unsuitable) extinguishing media

|  |  |
|--|--|
| <b>Suitable extinguishing media:</b>   | Water spray, foam, dry powder or carbon dioxide.                   |
| <b>Unsuitable extinguishing media:</b> | Avoid water in straight hose stream; will scatter and spread fire. |

|  |  |
|--|--|
| <b>Specific hazards arising from the chemical:</b> | Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Heat may cause the containers to explode. May form explosive peroxides. |
|--|--|

#### Special protective equipment and precautions for firefighters

|  |   |
|--|---|
| <b>Special fire fighting procedures:</b>               | Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out. |
| <b>Special protective equipment for fire-fighters:</b> | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.  |

#### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment. Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Methods and material for containment and cleaning up:**

In case of leakage, eliminate all ignition sources. Take precautionary measures against static discharges. Stop leak if possible without any risk. Use non-sparking tools. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

**Notification Procedures:**

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.

**Environmental Precautions:**

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**7. Handling and storage**

**Precautions for safe handling:**

DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground and bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting] equipment. Use non-sparking tools. Contact with air and light may form explosive peroxides. If peroxide formation is suspected, do not open or move container. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing mists or vapors. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash hands thoroughly after handling. See Section 8 of the SDS for Personal Protective Equipment.

**Conditions for safe storage, including any incompatibilities:**

Keep away from food, drink and animal feeding stuffs. Prolonged contact with air may cause formation of explosive peroxides. Nitrogen blanketing of containers is recommended. Keep container tightly closed in a cool, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

**8. Exposure controls/personal protection**

**Control Parameters**

**Occupational Exposure Limits**

| Chemical Identity | Type | Exposure Limit Values | Source  |
|-------------------|------|-----------------------|---|
| Diethyl ether     | TWA  | 400 ppm               | US. ACGIH Threshold Limit Values (2011)                                     |
|                   | STEL | 500 ppm               | US. ACGIH Threshold Limit Values (2011)                                     |
|                   | PEL  | 400 ppm 1,200 mg/m3   | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
|                   | TWA  | 400 ppm 1,200 mg/m3   | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)                              |
|                   | STEL | 500 ppm 1,500 mg/m3   | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)                              |
|                   | TWA  | 400 ppm 1,200 mg/m3   | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)      |
|                   | STEL | 500 ppm 1,500 mg/m3   | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)      |

|  |         |        |                                 |  |
|--|---------|--------|---------------------------------|--|
|  | ST ESL  | Health | 12,000<br>µg/m <sup>3</sup>     | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)  |
|  | AN ESL  | Health | 400 ppb                         | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)  |
|  | AN ESL  | Health | 1,200 µg/m <sup>3</sup>         | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)  |
|  | ST ESL  | Health | 4,000 ppb                       | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)  |
|  | STEL    |        | 500 ppm 1,500 mg/m <sup>3</sup> | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010) |
|  | TWA PEL |        | 400 ppm 1,200 mg/m <sup>3</sup> | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010) |

**Appropriate Engineering Controls** No data available.

**Individual protection measures, such as personal protective equipment**

**General information:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

**Eye/face protection:** Wear safety glasses with side shields (or goggles) and a face shield.

**Skin Protection**

**Hand Protection:** Chemical resistant gloves

**Other:** Wear suitable protective clothing.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator.

**Hygiene measures:** Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

**9. Physical and chemical properties**

**Appearance**

**Physical state:** Liquid  
**Form:** Volatile liquid  
**Color:** Colorless  
**Odor:** Characteristic  
**Odor threshold:** No data available.  
**pH:** No data available.  
**Melting point/freezing point:** -123.3 - -116.3 °C  
**Initial boiling point and boiling range:** 34.6 °C  
**Flash Point:** -45 °C (Closed Cup)  
**Evaporation rate:** 37.5 (butyl acetate=1)  
**Flammability (solid, gas):** Class IA Flammable Liquid  
**Upper/lower limit on flammability or explosive limits**  
**Flammability limit - upper (%):** 36.5 %(V)

|   |                       |
|---|-----------------------|
| <b>Flammability limit - lower (%):</b>          | 1.85 %(V)             |
| <b>Explosive limit - upper (%):</b>             | No data available.    |
| <b>Explosive limit - lower (%):</b>             | No data available.    |
| <b>Vapor pressure:</b>                          | 71.73 kPa (25 °C)     |
| <b>Vapor density:</b>                           | 2.55 (Air=1)          |
| <b>Density:</b>                                 | 0.71 g/ml (20 °C)     |
| <b>Relative density:</b>                        | 0.7134 (20 °C)        |
| <b>Solubility(ies)</b>                          |                       |
| <b>Solubility in water:</b>                     | 80 g/l (20 °C)        |
| <b>Solubility (other):</b>                      | ethanol: Very Soluble |
| <b>Partition coefficient (n-octanol/water):</b> | 0.89                  |
| <b>Auto-ignition temperature:</b>               | 160 °C                |
| <b>Decomposition temperature:</b>               | No data available.    |
| <b>Viscosity:</b>                               | No data available.    |
| <b>Other information</b>                        |                       |
| <b>Minimum ignition energy:</b>                 | 0.19 mJ               |
| <b>Molecular weight:</b>                        | 74.12 g/mol (C4H10O)  |

## 10. Stability and reactivity

|  |  |
|--|--|
| <b>Reactivity:</b>                         | No dangerous reaction known under conditions of normal use.  |
| <b>Chemical Stability:</b>                 | Oxidizes on contact with air to form unstable peroxides.   |
| <b>Possibility of hazardous reactions:</b> | Hazardous polymerization does not occur.   |
| <b>Conditions to avoid:</b>                | Heat, sparks, flames. Exposure to air.   |
| <b>Incompatible Materials:</b>             | Strong oxidizing agents. Acids. Bases, alkalies (organic). Air. May attack some plastics, rubber and coatings. |
| <b>Hazardous Decomposition Products:</b>   | Thermal decomposition may release oxides of carbon.  |

## 11. Toxicological information

### Information on likely routes of exposure

|                      |                                    |
|----------------------|------------------------------------|
| <b>Inhalation:</b>   | May cause drowsiness or dizziness. |
| <b>Skin Contact:</b> | Causes skin irritation.            |
| <b>Eye contact:</b>  | Causes serious eye irritation.     |
| <b>Ingestion:</b>    | Harmful if swallowed.              |

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

|                 |                                  |
|-----------------|----------------------------------|
| <b>Oral</b>     |                                  |
| <b>Product:</b> | LD 50 (Rat): 1,200 - 1,700 mg/kg |
| <b>Dermal</b>   |                                  |
| <b>Product:</b> | LD 50 (Rabbit) > 20,000 mg/kg    |

**Inhalation**  
**Product:** LC 50 (Rat, 4 h) 32000 ppm

**Repeated dose toxicity**  
**Product:** No data available.

**Skin Corrosion/Irritation**  
**Product:** Causes skin irritation.

**Serious Eye Damage/Eye Irritation**  
**Product:** Causes serious eye irritation.

**Respiratory or Skin Sensitization**  
**Product:** Not a skin nor a respiratory sensitizer.

**Carcinogenicity**  
**Product:** This substance has no evidence of carcinogenic properties.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**  
No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**  
No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**  
No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**  
**Product:** No mutagenic components identified

**In vivo**  
**Product:** No mutagenic components identified

**Reproductive toxicity**  
**Product:** Suspected of damaging fertility or the unborn child.

**Specific Target Organ Toxicity - Single Exposure**  
**Product:** Narcotic effect. Respiratory tract irritation.

**Specific Target Organ Toxicity - Repeated Exposure**  
**Product:** None known.

**Target Organs**  
Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

**Aspiration Hazard**  
**Product:** May be harmful if swallowed and enters airways.

**Other effects:** None known.

**12. Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Specified substance(s):**

Diethyl ether  
 LC 50 (Fathead minnow (Pimephales promelas), 96 h): 2,560 mg/l  
 LC 50 (Bluegill (Lepomis macrochirus), 96 h): > 10,000 mg/l  
 LC 50 (Carp (Leuciscus idus melanotus), 48 h): 2,840 mg/l  
 EC 50 (Fathead minnow (Pimephales promelas), 96 h): 2,260 mg/l

**Aquatic Invertebrates**

**Product:** No data available.

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** Expected to biodegrade slowly.

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available on bioaccumulation.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** Log Kow: 0.89

**Mobility in soil:**

No data available.

**Other adverse effects:**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**13. Disposal considerations**

**Disposal instructions:**

Discharge, treatment, or disposal may be subject to national, state, or local laws.

**Contaminated Packaging:**

Since emptied containers retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

### DOT

|                               |                 |
|-------------------------------|-----------------|
| UN Number:                    | UN 1155         |
| UN Proper Shipping Name:      | Diethyl ether   |
| Transport Hazard Class(es)    |                 |
| Class:                        | 3               |
| Label(s):                     | 3               |
| Packing Group:                | I               |
| Marine Pollutant:             | No              |
| Special precautions for user: | Not determined. |

### IMDG

|                               |                 |
|-------------------------------|-----------------|
| UN Number:                    | UN 1155         |
| UN Proper Shipping Name:      | DIETHYL ETHER   |
| Transport Hazard Class(es)    |                 |
| Class:                        | 3               |
| Label(s):                     | 3               |
| EmS No.:                      | F-E, S-D        |
| Packing Group:                | I               |
| Marine Pollutant:             | No              |
| Special precautions for user: | Not determined. |

### IATA

|                               |                 |
|-------------------------------|-----------------|
| UN Number:                    | UN 1155         |
| Proper Shipping Name:         | Diethyl ether   |
| Transport Hazard Class(es):   |                 |
| Class:                        | 3               |
| Label(s):                     | 3               |
| Packing Group:                | I               |
| Marine Pollutant:             | No              |
| Special precautions for user: | Not determined. |

## 15. Regulatory information

### US Federal Regulations

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

#### CERCLA Hazardous Substance List (40 CFR 302.4):

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|--------------------------|----------------------------|
| Diethyl ether            | 100 lbs.                   |

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

##### Hazard categories

Flammable (gases, aerosols, liquids, or solids)  
Acute toxicity (any route of exposure)  
Reproductive toxicity  
Specific target organ toxicity (single or repeated exposure)  
Hazards Not Otherwise Classified (HNOC)

##### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

**SARA 304 Emergency Release Notification**

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|--------------------------|----------------------------|
| Diethyl ether            | 100 lbs.                   |

**SARA 311/312 Hazardous Chemical**

| <u>Chemical Identity</u> | <u>Threshold Planning Quantity</u> |
|--------------------------|------------------------------------|
| Diethyl ether            | 10000 lbs.                         |

**SARA 313 (TRI Reporting)**

None present or none present in regulated quantities.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|--------------------------|----------------------------|
| Diethyl ether            | 10000 lbs.                 |

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|--------------------------|----------------------------|
| Diethyl ether            | 10000 lbs.                 |

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):**

None present or none present in regulated quantities.

**US State Regulations**

**US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

**US. New Jersey Worker and Community Right-to-Know Act**

| <u>Chemical Identity</u> |
|--------------------------|
| Diethyl ether            |

**US. Massachusetts RTK - Substance List**

| <u>Chemical Identity</u> |
|--------------------------|
| Diethyl ether            |

**US. Pennsylvania RTK - Hazardous Substances**

| <u>Chemical Identity</u> |
|--------------------------|
| Diethyl ether            |

**US. Rhode Island RTK**

| <u>Chemical Identity</u> |
|--------------------------|
| Diethyl ether            |

**International regulations**

**Montreal protocol**

Not applicable

**Stockholm convention**

Not applicable

**Rotterdam convention**

Not applicable

**Kyoto protocol**

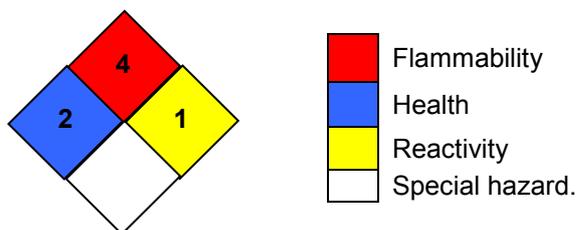
Not applicable

**Inventory Status:**

|  |  |
|--|--|
| Australia AICS:                          | On or in compliance with the inventory |
| Canada DSL Inventory List:               | On or in compliance with the inventory |
| EINECS, ELINCS or NLP:                   | On or in compliance with the inventory |
| Japan (ENCS) List:                       | On or in compliance with the inventory |
| China Inv. Existing Chemical Substances: | On or in compliance with the inventory |
| Korea Existing Chemicals Inv. (KECI):    | On or in compliance with the inventory |
| Philippines PICCS:                       | On or in compliance with the inventory |
| US TSCA Inventory:                       | On or in compliance with the inventory |
| New Zealand Inventory of Chemicals:      | On or in compliance with the inventory |
| Japan ISHL Listing:                      | On or in compliance with the inventory |
| Mexico INSQ:                             | On or in compliance with the inventory |
| Taiwan Chemical Substance Inventory:     | On or in compliance with the inventory |

**16. Other information, including date of preparation or last revision**

**NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

|                               |  |
|-------------------------------|--|
| <b>Issue Date:</b>            | 06-19-2019   |
| <b>Revision Information:</b>  | Not relevant.  |
| <b>Version #:</b>             | 1.1  |
| <b>Source of information:</b> | Sources of information used in preparing this SDS included one or more of the following: results from in house or supplier toxicology studies, information from the Toxicology Data Network (TOXNET), European Chemical Agency (ECHA) substance dossiers, IARC Monographs, US National Toxicology Program data, the Agency for Toxic Substances and Disease Registry, other manufacturer's SDSs and other sources, as appropriate. |
| <b>Further Information:</b>   | No data available.   |

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## SAFETY DATA SHEET

Creation Date 27-Apr-2009

Revision Date 03-Mar-2016

Revision Number 3

### 1. Identification

**Product Name** Methanol

**Cat No. :** AC177150000; AC177150010; AC177150025; AC177150050;  
AC177150051; AC177150250; AC177150251

**Synonyms** Methyl alcohol

**Recommended Use** Laboratory chemicals.

**Uses advised against** No Information available

**Details of the supplier of the safety data sheet**

| Company   | Entity / Business Name                                    | Emergency Telephone Number  |
|---|---|---|
| Fisher Scientific<br>One Reagent Lane<br>Fair Lawn, NJ 07410<br>Tel: (201) 796-7100 | Acros Organics<br>One Reagent Lane<br>Fair Lawn, NJ 07410 | For information <b>US</b> call: 001-800-ACROS-01<br>/ <b>Europe</b> call: +32 14 57 52 11<br>Emergency Number <b>US</b> :001-201-796-7100 /<br><b>Europe</b> : +32 14 57 52 99<br><b>CHEMTREC</b> Tel. No. <b>US</b> :001-800-424-9300 /<br><b>Europe</b> :001-703-527-3887 |

### 2. Hazard(s) identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|  |            |
|--|------------|
| Flammable liquids                                    | Category 2 |
| Acute oral toxicity                                  | Category 3 |
| Acute dermal toxicity                                | Category 3 |
| Acute Inhalation Toxicity - Vapors                   | Category 3 |
| Specific target organ toxicity (single exposure)     | Category 1 |
| Target Organs - Optic nerve.                         |            |
| Specific target organ toxicity - (repeated exposure) | Category 1 |
| Target Organs - Kidney, Liver, spleen, Blood.        |            |

#### Label Elements

##### Signal Word

Danger

##### Hazard Statements

Highly flammable liquid and vapor  
Toxic if swallowed  
Toxic in contact with skin  
Toxic if inhaled  
Causes damage to organs  
Causes damage to organs through prolonged or repeated exposure



### Precautionary Statements

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Use only outdoors or in a well-ventilated area  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use explosion-proof electrical/ventilating/lighting/equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge  
 Keep cool

#### Response

IF exposed: Call a POISON CENTER or doctor/physician

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Call a POISON CENTER or doctor/physician

#### Skin

Call a POISON CENTER or doctor/physician if you feel unwell  
 Wash contaminated clothing before reuse  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

#### Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 Rinse mouth

#### Fire

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

#### Storage

Store locked up  
 Store in a well-ventilated place. Keep container tightly closed

#### Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

#### Other hazards

Poison, may be fatal or cause blindness if swallowed. Vapor harmful. Cannot be made non-poisonous.  
 WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

### 3. Composition / information on ingredients

| Component      | CAS-No  | Weight % |
|----------------|---------|----------|
| Methyl alcohol | 67-56-1 | >95      |

### 4. First-aid measures

#### General Advice

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

|  |   |
|--|---|
| <b>Eye Contact</b>                     | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.   |
| <b>Skin Contact</b>                    | Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.   |
| <b>Inhalation</b>                      | Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. |
| <b>Ingestion</b>                       | Do not induce vomiting. Call a physician or Poison Control Center immediately.  |
| <b>Most important symptoms/effects</b> | Breathing difficulties. May cause blindness: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting  |
| <b>Notes to Physician</b>              | Treat symptomatically   |

## 5. Fire-fighting measures

|   |   |
|---|---|
| <b>Suitable Extinguishing Media</b>     | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray. |
| <b>Unsuitable Extinguishing Media</b>   | Water may be ineffective  |
| <b>Flash Point</b>                      | 12 °C / 53.6 °F   |
| <b>Method -</b>                         | No information available  |
| <b>Autoignition Temperature</b>         | 455 °C / 851 °F   |
| <b>Explosion Limits</b>                 |   |
| <b>Upper</b>                            | 31.00 vol %   |
| <b>Lower</b>                            | 6.0 vol %   |
| <b>Sensitivity to Mechanical Impact</b> | No information available  |
| <b>Sensitivity to Static Discharge</b>  | No information available  |

### Specific Hazards Arising from the Chemical

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Vapors may form explosive mixtures with air.

### Hazardous Combustion Products

Carbon monoxide (CO) Formaldehyde

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

### NFPA

|               |                     |                    |                         |
|---------------|---------------------|--------------------|-------------------------|
| <b>Health</b> | <b>Flammability</b> | <b>Instability</b> | <b>Physical hazards</b> |
| 1             | 3                   | 0                  | N/A                     |

## 6. Accidental release measures

|   |  |
|---|--|
| <b>Personal Precautions</b>                 | Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. |
| <b>Environmental Precautions</b>            | Should not be released into the environment. See Section 12 for additional ecological information.   |
| <b>Methods for Containment and Clean Up</b> | Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.  |

## 7. Handling and storage

|                 |  |
|-----------------|--|
| <b>Handling</b> | Wear personal protective equipment. Do not breathe vapors or spray mist. Do not get in |
|-----------------|--|

eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not ingest. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

**Storage**

Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Flammables area.

## 8. Exposure controls / personal protection

**Exposure Guidelines**

| Component      | ACGIH TLV                             | OSHA PEL   | NIOSH IDLH  |
|----------------|---------------------------------------|--|---|
| Methyl alcohol | TWA: 200 ppm<br>STEL: 250 ppm<br>Skin | (Vacated) TWA: 200 ppm<br>(Vacated) TWA: 260 mg/m <sup>3</sup><br>(Vacated) STEL: 250 ppm<br>(Vacated) STEL: 325 mg/m <sup>3</sup><br>Skin<br>TWA: 200 ppm<br>TWA: 260 mg/m <sup>3</sup> | IDLH: 6000 ppm<br>TWA: 200 ppm<br>TWA: 260 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 250 ppm<br>STEL: 325 mg/m <sup>3</sup> |

| Component      | Quebec   | Mexico OEL (TWA)   | Ontario TWAEV                         |
|----------------|--|--|---------------------------------------|
| Methyl alcohol | TWA: 200 ppm<br>TWA: 262 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 328 mg/m <sup>3</sup><br>Skin | TWA: 200 ppm<br>TWA: 260 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 310 mg/m <sup>3</sup> | TWA: 200 ppm<br>STEL: 250 ppm<br>Skin |

*Legend*

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

**Engineering Measures**

Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal Protective Equipment****Eye/face Protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin and body protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene Measures**

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

## 9. Physical and chemical properties

|                            |                               |
|----------------------------|-------------------------------|
| <b>Physical State</b>      | Liquid                        |
| <b>Appearance</b>          | Colorless                     |
| <b>Odor</b>                | Alcohol-like                  |
| <b>Odor Threshold</b>      | No information available      |
| <b>pH</b>                  | Not applicable                |
| <b>Melting Point/Range</b> | -98 °C / -144.4 °F            |
| <b>Boiling Point/Range</b> | 64.7 °C / 148.5 °F @ 760 mmHg |
| <b>Flash Point</b>         | 12 °C / 53.6 °F               |

|  |                          |
|--|--------------------------|
| Evaporation Rate                       | 5.2 (ether = 1)          |
| Flammability (solid,gas)               | Not applicable           |
| Flammability or explosive limits       |                          |
| Upper                                  | 31.00 vol %              |
| Lower                                  | 6.0 vol %                |
| Vapor Pressure                         | 128 hPa @ 20 °C          |
| Vapor Density                          | 1.11                     |
| Specific Gravity                       | 0.791                    |
| Solubility                             | Miscible with water      |
| Partition coefficient; n-octanol/water | No data available        |
| Autoignition Temperature               | 455 °C / 851 °F          |
| Decomposition Temperature              | No information available |
| Viscosity                              | 0.55 cP at 20 °C         |
| Molecular Formula                      | C H4 O                   |
| Molecular Weight                       | 32.04                    |
| VOC Content(%)                         | 100                      |
| Surface tension                        | 0.02255 N/m @ 20°C       |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactive Hazard</b>                  | None known, based on information available  |
| <b>Stability</b>                        | Stable under normal conditions.   |
| <b>Conditions to Avoid</b>              | Incompatible products. Heat, flames and sparks. Keep away from open flames, hot surfaces and sources of ignition. |
| <b>Incompatible Materials</b>           | Strong oxidizing agents, Strong acids, Acid anhydrides, Acid chlorides, Strong bases, Metals, Peroxides           |
| <b>Hazardous Decomposition Products</b> | Carbon monoxide (CO), Formaldehyde  |
| <b>Hazardous Polymerization</b>         | Hazardous polymerization does not occur.  |
| <b>Hazardous Reactions</b>              | None under normal processing.   |

## 11. Toxicological information

### Acute Toxicity

#### Product Information Component Information

| Component      | LD50 Oral  | LD50 Dermal   | LC50 Inhalation   |
|----------------|--|---|---|
| Methyl alcohol | Calc. ATE 60 mg/kg<br>LD50 > 1187 – 2769 mg/kg ( Rat ) | Calc. ATE 60 mg/kg<br>LD50 = 17100 mg/kg ( Rabbit ) | Calc. ATE 0.6 mg/L (vapours) or<br><b>0.5 mg/L (mists)</b><br>LC50 = 128.2 mg/L ( Rat ) 4 h |

**Toxicologically Synergistic Products** Carbon tetrachloride

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                        |  |
|------------------------|--|
| <b>Irritation</b>      | May cause skin and eye irritation  |
| <b>Sensitization</b>   | No information available   |
| <b>Carcinogenicity</b> | The table below indicates whether each agency has listed any ingredient as a carcinogen. |

| Component      | CAS-No  | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|----------------|---------|------------|------------|------------|------------|------------|
| Methyl alcohol | 67-56-1 | Not listed |

**Mutagenic Effects** No information available

**Reproductive Effects** Experiments have shown reproductive toxicity effects on laboratory animals.

|   |  |
|---|--|
| <b>Developmental Effects</b>                      | Developmental effects have occurred in experimental animals. Component substance is listed on California Proposition 65 as a developmental hazard. |
| <b>Teratogenicity</b>                             | Teratogenic effects have occurred in experimental animals.   |
| <b>STOT - single exposure</b>                     | Optic nerve  |
| <b>STOT - repeated exposure</b>                   | Kidney Liver spleen Blood  |
| <b>Aspiration hazard</b>                          | No information available   |
| <b>Symptoms / effects, both acute and delayed</b> | May cause blindness: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting           |
| <b>Endocrine Disruptor Information</b>            | No information available   |
| <b>Other Adverse Effects</b>                      | The toxicological properties have not been fully investigated.   |

## 12. Ecological information

### Ecotoxicity

| Component      | Freshwater Algae | Freshwater Fish                            | Microtox  | Water Flea            |
|----------------|------------------|--|---|-----------------------|
| Methyl alcohol | Not listed       | Pimephales promelas: LC50 > 10000 mg/L 96h | EC50 = 39000 mg/L 25 min<br>EC50 = 40000 mg/L 15 min<br>EC50 = 43000 mg/L 5 min | EC50 > 10000 mg/L 24h |

**Persistence and Degradability** Persistence is unlikely based on information available.  
**Bioaccumulation/ Accumulation** No information available.

**Mobility** Will likely be mobile in the environment due to its volatility.

| Component      | log Pow |
|----------------|---------|
| Methyl alcohol | -0.74   |

## 13. Disposal considerations

**Waste Disposal Methods** Should not be released into the environment.

| Component                | RCRA - U Series Wastes | RCRA - P Series Wastes |
|--------------------------|------------------------|------------------------|
| Methyl alcohol - 67-56-1 | U154                   | -                      |

## 14. Transport information

### DOT

**UN-No** UN1230  
**Proper Shipping Name** METHANOL  
**Hazard Class** 3  
**Packing Group** II

### TDG

**UN-No** UN1230  
**Proper Shipping Name** METHANOL  
**Hazard Class** 3  
**Subsidiary Hazard Class** 6.1  
**Packing Group** II

### IATA

**UN-No** UN1230  
**Proper Shipping Name** METHANOL  
**Hazard Class** 3  
**Subsidiary Hazard Class** 6.1  
**Packing Group** II

### IMDG/IMO

**UN-No** UN1230

Proper Shipping Name METHANOL  
 Hazard Class 3  
 Subsidiary Hazard Class 6.1  
 Packing Group II

## 15. Regulatory information

All of the components in the product are on the following Inventory lists: Complete Regulatory Information contained in following SDS's. Australia China Canada Europe TSCA Korea Philippines Japan

### International Inventories

| Component      | TSCA | DSL | NDSL | EINECS    | ELINCS | NLP | PICCS | ENCS | AICS | IECSC | KECL |
|----------------|------|-----|------|-----------|--------|-----|-------|------|------|-------|------|
| Methyl alcohol | X    | X   | -    | 200-659-6 | -      |     | X     | X    | X    | X     | X    |

#### Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

### U.S. Federal Regulations

TSCA 12(b) Not applicable

### SARA 313

| Component      | CAS-No  | Weight % | SARA 313 - Threshold Values % |
|----------------|---------|----------|-------------------------------|
| Methyl alcohol | 67-56-1 | >95      | 1.0                           |

### SARA 311/312 Hazard Categories

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | Yes |
| Chronic Health Hazard             | Yes |
| Fire Hazard                       | Yes |
| Sudden Release of Pressure Hazard | No  |
| Reactive Hazard                   | No  |

CWA (Clean Water Act) Not applicable

### Clean Air Act

| Component      | HAPS Data | Class 1 Ozone Depletors | Class 2 Ozone Depletors |
|----------------|-----------|-------------------------|-------------------------|
| Methyl alcohol | X         |                         | -                       |

OSHA Occupational Safety and Health Administration  
 Not applicable

### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Component      | Hazardous Substances RQs | CERCLA EHS RQs |
|----------------|--------------------------|----------------|
| Methyl alcohol | 5000 lb                  | -              |

California Proposition 65 This product contains the following proposition 65 chemicals

| Component      | CAS-No  | California Prop. 65 | Prop 65 NSRL | Category      |
|----------------|---------|---------------------|--------------|---------------|
| Methyl alcohol | 67-56-1 | Developmental       | -            | Developmental |

#### U.S. State Right-to-Know Regulations

| Component      | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|----------------|---------------|------------|--------------|----------|--------------|
| Methyl alcohol | X             | X          | X            | X        | X            |

#### U.S. Department of Transportation

Reportable Quantity (RQ): Y  
 DOT Marine Pollutant N  
 DOT Severe Marine Pollutant N

#### U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

#### Other International Regulations

Mexico - Grade Serious risk, Grade 3

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class B2 Flammable liquid  
 D1A Very toxic materials  
 D2A Very toxic materials



### 16. Other information

Prepared By Regulatory Affairs  
 Thermo Fisher Scientific  
 Email: EMSDS.RA@thermofisher.com

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 Revision Date 03-Mar-2016  
 Print Date 03-Mar-2016

Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**

# SAFETY DATA SHEET

According to US Regulation 29 CFR 1910.1200 (HazCom 2012)

## 1. Identification

**Product identifier:** Methyl Isobutyl Ketone

**Other means of identification**

**Product No.:** 9212, 4855, 6247, 5923, 5384, 9405, 9322

**Recommended restrictions**

**Recommended use:** For Laboratory, Research or Manufacturing Use.

**Restrictions on use:** Not determined.

**Details of the supplier of the safety data sheet**

**Manufacturer**

Company Name: Avantor Performance Materials, LLC.  
Address: 3477 Corporate Parkway  
Center Valley, PA 18034

Telephone: Customer Service: 855-282-6867

Fax: 610-573-2610  
Contact Person: Environmental Health & Safety  
E-mail: info@avantormaterials.com

**Emergency telephone number:**

CHEMTREC: 1-800-424-9300 within US and Canada

## 2. Hazard(s) identification

**Hazard Classification**

**Physical Hazards**

Flammable liquids Category 2

**Health Hazards**

|   |                         |
|---|-------------------------|
| Acute toxicity (Inhalation - vapor)                 | Category 4              |
| Serious Eye Damage/Eye Irritation                   | Category 2A             |
| Carcinogenicity                                     | Category 2              |
| Specific Target Organ Toxicity -<br>Single Exposure | Category 3 <sup>1</sup> |

**Target Organs**

1. Respiratory tract irritation., Narcotic effect.

**Unknown toxicity - Health**

|   |       |
|---|-------|
| Acute toxicity, inhalation, vapor           | 0 %   |
| Acute toxicity, inhalation, dust<br>or mist | 100 % |

**Label Elements**

**Hazard Symbol:**



**Signal Word:** Danger

**Hazard Statement:** Highly flammable liquid and vapor.  
Causes serious eye irritation.  
Harmful if inhaled.  
May cause respiratory irritation.  
Suspected of causing cancer.  
May cause flash fire or explosion.  
Sparks may ignite liquid and vapor.  
Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment.

**Precautionary Statements**

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting] equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

**Response:** IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Call a POISON CENTER/doctor if you feel unwell. In case of fire: Use water spray, foam, dry powder or carbon dioxide for extinction.

**Storage:** Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Hazard(s) not otherwise classified (HNOC):** Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

**3. Composition/information on ingredients**

## Substances

| Chemical Identity      | CAS number | Content in percent (%)* |
|------------------------|------------|-------------------------|
| Methyl isobutyl ketone | 108-10-1   | 90 - 100%               |

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

|                             |  |
|-----------------------------|--|
| <b>General information:</b> | Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.  |
| <b>Ingestion:</b>           | Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.   |
| <b>Inhalation:</b>          | Move to fresh air. Call a POISON CENTER/doctor if you feel unwell.   |
| <b>Skin Contact:</b>        | Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.   |
| <b>Eye contact:</b>         | Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately. |

### Most important symptoms/effects, acute and delayed

|                  |  |
|------------------|--|
| <b>Symptoms:</b> | Irritating to eyes, respiratory system and skin. |
| <b>Hazards:</b>  | None known.                                      |

### Indication of immediate medical attention and special treatment needed

|                   |   |
|-------------------|---|
| <b>Treatment:</b> | Treat symptomatically. Symptoms may be delayed. |
|-------------------|---|

## 5. Fire-fighting measures

**General Fire Hazards:** Flammable liquid and vapor.

### Suitable (and unsuitable) extinguishing media

|  |  |
|--|--|
| <b>Suitable extinguishing media:</b>   | Water spray, foam, dry powder or carbon dioxide.                   |
| <b>Unsuitable extinguishing media:</b> | Avoid water in straight hose stream; will scatter and spread fire. |

**Specific hazards arising from the chemical:** Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Heat may cause the containers to explode.

### Special protective equipment and precautions for firefighters

|  |  |
|--|--|
| <b>Special fire fighting procedures:</b> | Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk. |
|--|--|

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Keep upwind. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. See Section 8 of the SDS for Personal Protective Equipment.

**Methods and material for containment and cleaning up:** In case of leakage, eliminate all ignition sources. Take precautionary measures against static discharges. Stop leak if possible without any risk. Use non-sparking tools. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

**Notification Procedures:** Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

**Environmental Precautions:** Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

## 7. Handling and storage

**Precautions for safe handling:** DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take precautionary measures against static discharges. Ground and bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting] equipment. Use non-sparking tools. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash hands thoroughly after handling.

**Conditions for safe storage, including any incompatibilities:** Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a cool, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

| Chemical Identity      | Type | Exposure Limit Values | Source  |
|------------------------|------|-----------------------|---|
| Methyl isobutyl ketone | TWA  | 20 ppm                | US. ACGIH Threshold Limit Values (2011)                                     |
|                        | STEL | 75 ppm                | US. ACGIH Threshold Limit Values (2011)                                     |
|                        | STEL | 75 ppm 300 mg/m3      | US. NIOSH: Pocket Guide to Chemical Hazards (2010)                          |
|                        | REL  | 50 ppm 205 mg/m3      | US. NIOSH: Pocket Guide to Chemical Hazards (2010)                          |
|                        | PEL  | 100 ppm 410 mg/m3     | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
|                        | TWA  | 50 ppm 205 mg/m3      | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)                              |
|                        | STEL | 75 ppm 300 mg/m3      | US. OSHA Table Z-1-A (29 CFR 1910.1000)                                     |

|  |         |        |                       |  |
|--|---------|--------|-----------------------|--|
|  |         |        |                       | (1989)   |
|  | TWA     | 50 ppm | 205 mg/m <sup>3</sup> | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)                     |
|  | STEL    | 75 ppm | 300 mg/m <sup>3</sup> | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)                     |
|  | ST ESL  | Health | 820 µg/m <sup>3</sup> | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)  |
|  | ST ESL  | Health | 200 ppb               | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)  |
|  | AN ESL  | Health | 20 ppb                | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)  |
|  | AN ESL  | Health | 82 µg/m <sup>3</sup>  | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)  |
|  | TWA PEL | 50 ppm | 205 mg/m <sup>3</sup> | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010) |
|  | STEL    | 75 ppm | 300 mg/m <sup>3</sup> | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010) |

### Biological Limit Values

| Chemical Identity   | Exposure Limit Values | Source              |
|---|-----------------------|---------------------|
| Methyl isobutyl ketone<br>(methyl isobutyl ketone:<br>Sampling time: End of shift.) | 1 mg/l (Urine)        | ACGIH BEI (03 2013) |

**Appropriate Engineering Controls** No data available.

### Individual protection measures, such as personal protective equipment

**General information:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

**Eye/face protection:** Wear safety glasses with side shields (or goggles). Wear safety glasses with side shields (or goggles) and a face shield.

**Skin Protection**  
**Hand Protection:** Wear protective gloves.

**Other:** Wear suitable protective clothing.

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

## 9. Physical and chemical properties

**Appearance**

|  |  |
|--|--|
| <b>Physical state:</b>                                       | Liquid   |
| <b>Form:</b>   | Liquid   |
| <b>Color:</b>  | Colorless  |
| <b>Odor:</b>   | Characteristic   |
| <b>Odor threshold:</b>                                       | No data available.   |
| <b>pH:</b>   | No data available.   |
| <b>Melting point/freezing point:</b>                         | -85 - -84 °C   |
| <b>Initial boiling point and boiling range:</b>              | 116 - 118 °C   |
| <b>Flash Point:</b>  | 15 - 23 °C (Closed Cup)  |
| <b>Evaporation rate:</b>                                     | 5.6 ether=1  |
| <b>Flammability (solid, gas):</b>                            | Class IB Flammable Liquid  |
| <b>Upper/lower limit on flammability or explosive limits</b> |  |
| <b>Flammability limit - upper (%):</b>                       | 12 %(V)  |
| <b>Flammability limit - lower (%):</b>                       | 1 %(V)   |
| <b>Explosive limit - upper (%):</b>                          | No data available.   |
| <b>Explosive limit - lower (%):</b>                          | No data available.   |
| <b>Vapor pressure:</b>                                       | 2.65 kPa (20 °C) 2.64 kPa (25 °C)  |
| <b>Vapor density:</b>  | 3.5 (Air=1)  |
| <b>Density:</b>  | 0.80 g/ml (20 °C)  |
| <b>Relative density:</b>                                     | 0.8042 (20 °C)   |
| <b>Solubility(ies)</b>                                       |  |
| <b>Solubility in water:</b>                                  | 19 g/l (25 °C)   |
| <b>Solubility (other):</b>                                   | ethanol: Miscible<br>ether: Miscible<br>acetone: Miscible<br>benzene: Miscible<br>chloroform: Miscible |
| <b>Partition coefficient (n-octanol/water):</b>              | 1.31   |
| <b>Auto-ignition temperature:</b>                            | 448 - 460 °C   |
| <b>Decomposition temperature:</b>                            | No data available.   |
| <b>Viscosity:</b>  | No data available.   |
| <b>Other information</b>                                     |  |
| <b>Liquid conductivity:</b>                                  | 0.05 - 0.52 µS/cm  |
| <b>Molecular weight:</b>                                     | 100.16 g/mol (C6H12O)  |

|                                     |
|-------------------------------------|
| <b>10. Stability and reactivity</b> |
|-------------------------------------|

|  |   |
|--|---|
| <b>Reactivity:</b>                         | No dangerous reaction known under conditions of normal use.                 |
| <b>Chemical Stability:</b>                 | Material is stable under normal conditions.                                 |
| <b>Possibility of hazardous reactions:</b> | Hazardous polymerization does not occur.                                    |
| <b>Conditions to avoid:</b>                | Heat, sparks, flames. Contact with incompatible materials. Exposure to air. |
| <b>Incompatible Materials:</b>             | Strong oxidizing agents. Strong acids.                                      |
| <b>Hazardous Decomposition Products:</b>   | Thermal decomposition may release oxides of carbon.                         |

## 11. Toxicological information

### Information on likely routes of exposure

|                      |                                |
|----------------------|--------------------------------|
| <b>Inhalation:</b>   | Harmful if inhaled.            |
| <b>Skin Contact:</b> | Causes mild skin irritation.   |
| <b>Eye contact:</b>  | Causes serious eye irritation. |
| <b>Ingestion:</b>    | May be harmful if swallowed.   |

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

|                   |                               |
|-------------------|-------------------------------|
| <b>Oral</b>       |                               |
| <b>Product:</b>   | LD 50 (Rat): 2,080 mg/kg      |
| <b>Dermal</b>     |                               |
| <b>Product:</b>   | LD 50 (Rabbit) > 16,000 mg/kg |
| <b>Inhalation</b> |                               |
| <b>Product:</b>   | LC 50 (Rat, 4 h) 12.4 mg/l    |

#### Repeated dose toxicity

**Product:** No data available.

#### Skin Corrosion/Irritation

**Product:** Causes mild skin irritation.

#### Serious Eye Damage/Eye Irritation

**Product:** Causes serious eye irritation.

#### Respiratory or Skin Sensitization

**Product:** Not a skin sensitizer.

#### Carcinogenicity

**Product:** No data available.

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Methyl isobutyl ketone Overall evaluation: 2B. Possibly carcinogenic to humans.

#### US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**  
**Product:** No mutagenic components identified

**In vivo**  
**Product:** No mutagenic components identified

**Reproductive toxicity**  
**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**  
**Product:** Respiratory tract irritation.

**Specific Target Organ Toxicity - Repeated Exposure**  
**Product:** No data available.

**Target Organs**  
Specific Target Organ Toxicity - Single Exposure: Respiratory tract irritation., Narcotic effect.

**Aspiration Hazard**  
**Product:** Not classified

**Other effects:** None known.

**12. Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish**  
**Product:** No data available.

**Specified substance(s):**  
Methyl isobutyl ketone  
LC 50 (Fathead minnow (Pimephales promelas), 96 h): 496 - 522 mg/l  
LC 50 (Danio rerio, 96 h): > 179 mg/l  
NOAEL (Danio rerio, 96 h): >= 179 mg/l  
LOAEL (Danio rerio, 96 h): > 179 mg/l

**Aquatic Invertebrates**  
**Product:** No data available.

**Specified substance(s):**  
Methyl isobutyl ketone  
LOAEL (Daphnia magna, 48 h): >= 200 mg/l  
EC 50 (Daphnia magna, 48 h): > 200 mg/l  
NOAEL (Daphnia magna, 48 h): >= 200 mg/l

**Chronic hazards to the aquatic environment:**

**Fish**  
**Product:** No data available.

**Aquatic Invertebrates**  
**Product:** No data available.

**Specified substance(s):**

Methyl isobutyl ketone  
NOAEL (Daphnia magna, 21 d): 30 - 78 mg/l  
LOAEL (Daphnia magna, 21 d): 64 - 625 mg/l

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** There are no data on the degradability of this product.

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available on bioaccumulation.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** Log Kow: 1.31

**Mobility in soil:**

The product is partly soluble in water. May spread in the aquatic environment.

**Other adverse effects:**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

|                                    |
|------------------------------------|
| <b>13. Disposal considerations</b> |
|------------------------------------|

**Disposal instructions:**

Discharge, treatment, or disposal may be subject to national, state, or local laws.

**Contaminated Packaging:**

Since emptied containers retain product residue, follow label warnings even after container is emptied.

|                                  |
|----------------------------------|
| <b>14. Transport information</b> |
|----------------------------------|

**DOT**

|                            |                        |
|----------------------------|------------------------|
| UN Number:                 | UN 1245                |
| UN Proper Shipping Name:   | Methyl isobutyl ketone |
| Transport Hazard Class(es) |                        |
| Class:                     | 3                      |
| Label(s):                  | 3                      |
| Packing Group:             | II                     |
| Marine Pollutant:          | No                     |

Special precautions for user: Not determined.

**IMDG**

UN Number: UN 1245  
 UN Proper Shipping Name: METHYL ISOBUTYL KETONE  
 Transport Hazard Class(es)  
   Class: 3  
   Label(s): 3  
   EmS No.: F-E, S-D  
 Packing Group: II  
 Marine Pollutant: No  
 Special precautions for user: Not determined.

**IATA**

UN Number: UN 1245  
 Proper Shipping Name: Methyl isobutyl ketone  
 Transport Hazard Class(es):  
   Class: 3  
   Label(s): 3  
 Packing Group: II  
 Marine Pollutant: No  
 Special precautions for user: Not determined.

**15. Regulatory information**

**US Federal Regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|--------------------------|----------------------------|
| Methyl isobutyl ketone   | 5000 lbs.                  |

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Flammable (gases, aerosols, liquids, or solids)  
 Acute toxicity (any route of exposure)  
 Serious eye damage or eye irritation  
 Carcinogenicity  
 Specific target organ toxicity (single or repeated exposure)  
 Hazards Not Otherwise Classified (HNOC)

**SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

**SARA 304 Emergency Release Notification**

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|--------------------------|----------------------------|
| Methyl isobutyl ketone   | 5000 lbs.                  |

**SARA 311/312 Hazardous Chemical**

| <u>Chemical Identity</u> | <u>Threshold Planning Quantity</u> |
|--------------------------|------------------------------------|
| Methyl isobutyl ketone   | 10000 lbs.                         |

**SARA 313 (TRI Reporting)**

| <u>Chemical Identity</u> | <u>Reporting threshold for other users</u> | <u>Reporting threshold for manufacturing and processing</u> |
|--------------------------|--|---|
| Methyl isobutyl ketone   | 10000 lbs.                                 | 25000 lbs.  |

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):**

None present or none present in regulated quantities.

**US State Regulations**

**US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

|                        |                      |
|------------------------|----------------------|
| Methyl isobutyl ketone | Carcinogenic.        |
| Methyl isobutyl ketone | Developmental toxin. |

**US. New Jersey Worker and Community Right-to-Know Act**

| <u>Chemical Identity</u> |
|--------------------------|
| Methyl isobutyl ketone   |

**US. Massachusetts RTK - Substance List**

| <u>Chemical Identity</u> |
|--------------------------|
| Methyl isobutyl ketone   |

**US. Pennsylvania RTK - Hazardous Substances**

| <u>Chemical Identity</u> |
|--------------------------|
| Methyl isobutyl ketone   |

**US. Rhode Island RTK**

| <u>Chemical Identity</u> |
|--------------------------|
| Methyl isobutyl ketone   |

**International regulations**

**Montreal protocol**

Not applicable

**Stockholm convention**

Not applicable

**Rotterdam convention**

Not applicable

**Kyoto protocol**

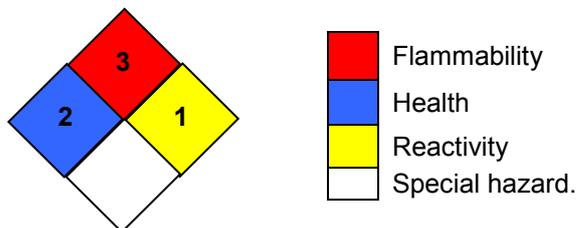
Not applicable

**Inventory Status:**

|  |  |
|--|--|
| Australia AICS:                          | On or in compliance with the inventory |
| Canada DSL Inventory List:               | On or in compliance with the inventory |
| EINECS, ELINCS or NLP:                   | On or in compliance with the inventory |
| Japan (ENCS) List:                       | On or in compliance with the inventory |
| China Inv. Existing Chemical Substances: | On or in compliance with the inventory |
| Korea Existing Chemicals Inv. (KECI):    | On or in compliance with the inventory |
| Philippines PICCS:                       | On or in compliance with the inventory |
| US TSCA Inventory:                       | On or in compliance with the inventory |
| New Zealand Inventory of Chemicals:      | On or in compliance with the inventory |
| Japan ISHL Listing:                      | On or in compliance with the inventory |
| Mexico INSQ:                             | On or in compliance with the inventory |
| Taiwan Chemical Substance Inventory:     | On or in compliance with the inventory |

**16. Other information, including date of preparation or last revision**

**NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

|                               |  |
|-------------------------------|--|
| <b>Issue Date:</b>            | 06-28-2018   |
| <b>Revision Information:</b>  | Not relevant.  |
| <b>Version #:</b>             | 1.3  |
| <b>Source of information:</b> | Sources of information used in preparing this SDS included one or more of the following: results from in house or supplier toxicology studies, information from the Toxicology Data Network (TOXNET), European Chemical Agency (ECHA) substance dossiers, IARC Monographs, US National Toxicology Program data, the Agency for Toxic Substances and Disease Registry, other manufacturer's SDSs and other sources, as appropriate. |
| <b>Further Information:</b>   | No data available.   |

**Disclaimer:**

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# SAFETY DATA SHEET

## N-Butyl Alcohol

### Section 1. Identification

|                                      |  |
|--------------------------------------|--|
| <b>GHS product identifier</b>        | : N-Butyl Alcohol  |
| <b>Chemical name</b>                 | : N-Butyl Alcohol  |
| <b>Other means of identification</b> | : n-butanol; 1-Butanol; n-BUTYL ALCOHOL; n-BUTYL ALCOHE; n-Propyl carbinol; 1-Hydroxybutane; Butyl alcohol; 1-Butanol (l); n-Butyl alcohol (l); Normal butyl alcohol |
| <b>Product use</b>                   | : Synthetic/Analytical chemistry.  |
| <b>Synonym</b>                       | : n-butanol; 1-Butanol; n-BUTYL ALCOHOL; n-BUTYL ALCOHE; n-Propyl carbinol; 1-Hydroxybutane; Butyl alcohol; 1-Butanol (l); n-Butyl alcohol (l); Normal butyl alcohol |
| <b>SDS #</b>                         | : 001157   |
| <b>Supplier's details</b>            | : Airgas USA, LLC and its affiliates<br>259 North Radnor-Chester Road<br>Suite 100<br>Radnor, PA 19087-5283<br>1-610-687-5253  |
| <b>24-hour telephone</b>             | : 1-866-734-3438   |

### Section 2. Hazards identification

|   |   |
|---|---|
| <b>OSHA/HCS status</b>                            | : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).   |
| <b>Classification of the substance or mixture</b> | : FLAMMABLE LIQUIDS - Category 3<br>SKIN IRRITATION - Category 2<br>SERIOUS EYE DAMAGE - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |

#### GHS label elements

##### **Hazard pictograms**



##### **Signal word**

: Danger

##### **Hazard statements**

: Flammable liquid and vapor.  
May form explosive mixtures in Air.  
Causes serious eye damage.  
Causes skin irritation.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.

#### Precautionary statements

##### **General**

: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

##### **Prevention**

: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.

## Section 2. Hazards identification

- Response** : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
- Storage** : Store locked up. Store in a well-ventilated place. Keep cool.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

- Substance/mixture** : Substance
- Chemical name** : N-Butyl Alcohol
- Other means of identification** : n-butanol; 1-Butanol; n-BUTYL ALCOHOL; n-BUTYL ALCOHE; n-Propyl carbinol; 1-Hydroxybutane; Butyl alcohol; 1-Butanol (I); n-Butyl alcohol (I); Normal butyl alcohol

### CAS number/other identifiers

- CAS number** : 71-36-3
- Product code** : 001157

| Ingredient name | %   | CAS number |
|-----------------|-----|------------|
| n-butyl alcohol | 100 | 71-36-3    |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

## Section 4. First aid measures

- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact** : Causes skin irritation.
- Frostbite** : Try to warm up the frozen tissues and seek medical attention.
- Ingestion** : Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:., pain, watering, redness
- Inhalation** : Adverse symptoms may include the following:., respiratory tract irritation, coughing, nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness
- Skin contact** : Adverse symptoms may include the following:., pain or irritation, redness, blistering may occur
- Ingestion** : Adverse symptoms may include the following:., stomach pains

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

- Specific hazards arising from the chemical** : Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

## Section 5. Fire-fighting measures

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## Section 7. Handling and storage

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name | Exposure limits   |
|-----------------|---|
| n-butyl alcohol | <p><b>ACGIH TLV (United States, 3/2016).</b><br/>TWA: 20 ppm 8 hours.</p> <p><b>NIOSH REL (United States, 10/2016).</b><br/><b>Absorbed through skin.</b><br/>CEIL: 150 mg/m<sup>3</sup><br/>CEIL: 50 ppm</p> <p><b>OSHA PEL (United States, 6/2016).</b><br/>TWA: 300 mg/m<sup>3</sup> 8 hours.<br/>TWA: 100 ppm 8 hours.</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b><br/><b>Absorbed through skin.</b><br/>CEIL: 150 mg/m<sup>3</sup><br/>CEIL: 50 ppm</p> |

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

## Section 8. Exposure controls/personal protection

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid. [Watery liquid.]
- Color** : Colorless.
- Molecular weight** : 74.14 g/mole
- Molecular formula** : C<sub>4</sub>H<sub>10</sub>O
- Boiling/condensation point** : 119°C (246.2°F)
- Melting/freezing point** : <-90°C (<-130°F)
- Critical temperature** : 289.85°C (553.7°F)
- Odor** : Characteristic.
- Odor threshold** : Not available.
- pH** : Not available.
- Flash point** : Closed cup: 35°C (95°F)
- Burning time** : Not applicable.
- Burning rate** : Not applicable.
- Evaporation rate** : 0.44 (butyl acetate = 1)
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Lower: 1.4%  
Upper: 11.3%
- Vapor pressure** : <1 kPa (<7.5 mm Hg) [room temperature]
- Vapor density** : 2.6 (Air = 1)
- Specific Volume (ft<sup>3</sup>/lb)** : 1.2353
- Gas Density (lb/ft<sup>3</sup>)** : 0.8095 (20°C / 68 to °F)
- Relative density** : 0.81
- Solubility** : Not available.
- Solubility in water** : 66 g/l
- Partition coefficient: n-octanol/water** : 1
- Auto-ignition temperature** : 355°C (671°F)
- Decomposition temperature** : Not available.
- SADT** : Not available.
- Viscosity** : Dynamic (room temperature): 2.95 mPa·s (2.95 cP)

## Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
- Incompatible materials** : Reactive or incompatible with the following materials:  
oxidizing materials
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name | Result                | Species | Dose                    | Exposure |
|-------------------------|-----------------------|---------|-------------------------|----------|
| n-butyl alcohol         | LC50 Inhalation Gas.  | Rat     | 16000 ppm               | 1 hours  |
|                         | LC50 Inhalation Vapor | Rat     | 24000 mg/m <sup>3</sup> | 4 hours  |
|                         | LD50 Dermal           | Rabbit  | 3400 mg/kg              | -        |
|                         | LD50 Oral             | Rat     | 790 mg/kg               | -        |

**IDLH** : 1400 ppm

#### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure               | Observation |
|-------------------------|--------------------------|---------|-------|------------------------|-------------|
| n-butyl alcohol         | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 2 milligrams  | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 0.005 Milliliters      | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 milligrams | -           |

#### Sensitization

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

## Section 11. Toxicological information

| Name            | Category   | Route of exposure | Target organs                                     |
|-----------------|------------|-------------------|---|
| n-butyl alcohol | Category 3 | Not applicable.   | Respiratory tract irritation and Narcotic effects |

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Routes of entry anticipated: Inhalation.

### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact** : Causes skin irritation.
- Ingestion** : Can cause central nervous system (CNS) depression.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following: pain, watering, redness
- Inhalation** : Adverse symptoms may include the following: respiratory tract irritation, coughing, nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness
- Skin contact** : Adverse symptoms may include the following: pain or irritation, redness, blistering may occur
- Ingestion** : Adverse symptoms may include the following: stomach pains

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

- General** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 11. Toxicological information

## Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result  | Species  | Exposure |
|-------------------------|---|--|----------|
| n-butyl alcohol         | Acute EC50 1983000 to 2072000 µg/l<br>Fresh water | Daphnia - Daphnia magna  | 48 hours |
|                         | Acute LC50 1910000 µg/l Fresh water               | Fish - Pimephales promelas -<br>Juvenile (Fledgling, Hatchling,<br>Weanling) | 96 hours |

### Persistence and degradability

Not available.

### Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| n-butyl alcohol         | 1                  | -   | low       |

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### United States - RCRA Toxic hazardous waste "U" List

| Ingredient                         | CAS #   | Status | Reference number |
|------------------------------------|---------|--------|------------------|
| 1-Butanol (l); n-Butyl alcohol (l) | 71-36-3 | Listed | U031             |

## Section 14. Transport information

## Section 14. Transport information

|                            | DOT   | TDG   | Mexico   | IMDG   | IATA   |
|----------------------------|---|---|--|--|--|
| UN number                  | UN1120  | UN1120  | UN1120   | UN1120   | UN1120   |
| UN proper shipping name    | Butanols  | Butanols  | Butanols   | BUTANOLS   | BUTANOLS   |
| Transport hazard class(es) | 3<br>  | 3<br>  | 3<br> | 3<br> | 3<br> |
| Packing group              | III   | III   | III  | III  | III  |
| Environment                | No.   | No.   | No.  | No.  | No.  |
| Additional information     | <p><b>Reportable quantity</b><br/>5000 lbs / 2270 kg [740.79 gal / 2804.2 L]<br/>Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.</p> | <p>Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).</p> <p><b>Explosive Limit and Limited Quantity Index</b><br/>1</p> <p><b>Passenger Carrying Road or Rail Index</b><br/>5</p> | -  | -  | -  |

“Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product.”

**Special precautions for user** : **Transport within user’s premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** This material is listed or exempted.

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

## Section 15. Regulatory information

**SARA 304 RQ** : Not applicable.

**SARA 311/312**

**Classification** : Refer to Section 2: Hazards Identification of this SDS for classification of substance.

**SARA 313**

|                                 | Product name    | CAS number | %   |
|---------------------------------|-----------------|------------|-----|
| Form R - Reporting requirements | N-Butyl Alcohol | 71-36-3    | 100 |
| Supplier notification           | N-Butyl Alcohol | 71-36-3    | 100 |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

**State regulations**

**Massachusetts** : This material is listed.  
**New York** : This material is listed.  
**New Jersey** : This material is listed.  
**Pennsylvania** : This material is listed.

**International regulations**

**International lists**

**National inventory**

**Australia** : This material is listed or exempted.  
**Canada** : This material is listed or exempted.  
**China** : This material is listed or exempted.  
**Europe** : This material is listed or exempted.  
**Japan** : **Japan inventory (ENCS)**: This material is listed or exempted.  
**Japan inventory (ISHL)**: This material is listed or exempted.  
**Malaysia** : This material is listed or exempted.  
**New Zealand** : This material is listed or exempted.  
**Philippines** : This material is listed or exempted.  
**Republic of Korea** : This material is listed or exempted.  
**Taiwan** : This material is listed or exempted.

**Canada**

**WHMIS (Canada)** : Class B-2: Flammable liquid  
Class D-2B: Material causing other toxic effects (Toxic).  
**CEPA Toxic substances**: This material is not listed.  
**Canadian ARET**: This material is not listed.  
**Canadian NPRI**: This material is listed.  
**Alberta Designated Substances**: This material is not listed.  
**Ontario Designated Substances**: This material is not listed.  
**Quebec Designated Substances**: This material is not listed.

## Section 16. Other information

**Canada Label requirements** : Class B-2: Flammable liquid  
Class D-2B: Material causing other toxic effects (Toxic).

**Hazardous Material Information System (U.S.A.)**

|                  |   |   |
|------------------|---|---|
| Health           | * | 2 |
| Flammability     |   | 3 |
| Physical hazards |   | 0 |
|                  |   |   |

## Section 16. Other information

**Caution:** HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### [National Fire Protection Association \(U.S.A.\)](#)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### [Procedure used to derive the classification](#)

| Classification      | Justification   |
|---------------------|-----------------|
| Flam. Liq. 3, H226  | Expert judgment |
| Skin Irrit. 2, H315 | Expert judgment |
| Eye Dam. 1, H318    | Expert judgment |
| STOT SE 3, H335     | Expert judgment |
| STOT SE 3, H336     | Expert judgment |

### [History](#)

**Date of printing** : 8/14/2017

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**Date of previous issue** : 4/21/2016

**Version** : 0.02

**Key to abbreviations** : ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 UN = United Nations

**References** : Not available.

☑ Indicates information that has changed from previously issued version.

### [Notice to reader](#)

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



# SAFETY DATA SHEET

Revision Date: 26-Jun-2018

Revision Number: 4

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** XYLENE  
**Product Code** V703-00  
**Alternate Product Code** V70300  
**Product Class** PAINT THINNER  
**Color** Clear  
**Recommended use** Industrial paint  
**Restrictions on use** No information available

**Manufacturer** Benjamin Moore & Co.  
101 Paragon Drive  
Montvale, NJ 07645  
Phone: 1-866-708-9180  
corotechcoatings.com

**Emergency Telephone**  
CHEMTREC (US): 800-424-9300  
CHEMTREC (outside US): (703)-527-3887

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|  |            |
|--|------------|
| Acute toxicity - Dermal                            | Category 4 |
| Acute toxicity - Inhalation (Dusts/Mists)          | Category 4 |
| Skin corrosion/irritation                          | Category 2 |
| Serious eye damage/eye irritation                  | Category 2 |
| Carcinogenicity                                    | Category 2 |
| Specific target organ toxicity (single exposure)   | Category 3 |
| Specific target organ toxicity (repeated exposure) | Category 2 |
| Aspiration toxicity                                | Category 1 |
| Flammable liquids                                  | Category 3 |

### Label elements

#### **Danger**

#### **Hazard statements**

Harmful in contact with skin  
Harmful if inhaled

Causes skin irritation  
Causes serious eye irritation  
Suspected of causing cancer  
May cause respiratory irritation  
May cause damage to organs through prolonged or repeated exposure  
May be fatal if swallowed and enters airways  
Flammable liquid and vapor



**Appearance** liquid

**Odor** solvent

#### **Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Use only outdoors or in a well-ventilated area  
Wash face, hands and any exposed skin thoroughly after handling  
Wear eye/face protection  
Do not breathe dust/fume/gas/mist/vapors/spray  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
Keep container tightly closed  
Ground/bond container and receiving equipment  
Use explosion-proof electrical/ventilating/lighting/equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge  
Keep cool

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

##### **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

##### **Skin**

Call a POISON CENTER or doctor/physician if you feel unwell

If skin irritation occurs: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
Wash contaminated clothing before reuse

##### **Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

##### **Ingestion**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

##### **Fire**

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

#### **Precautionary Statements - Storage**

Store locked up  
Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other information**

No information available

### 3. COMPOSITION INFORMATION ON COMPONENTS

| Chemical name | CAS No.   | Weight-% |
|---------------|-----------|----------|
| Xylene        | 1330-20-7 | 80       |
| Ethyl benzene | 100-41-4  | 25       |

### 4. FIRST AID MEASURES

**Description of first aid measures**

|  |  |
|--|--|
| <b>General Advice</b>                  | If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.  |
| <b>Eye Contact</b>                     | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists, consult a specialist. |
| <b>Skin Contact</b>                    | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.   |
| <b>Inhalation</b>                      | Move to fresh air. If symptoms persist, call a physician.<br>If not breathing, give artificial respiration. Call a physician immediately.  |
| <b>Ingestion</b>                       | Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician.    |
| <b>Protection Of First-Aiders</b>      | Use personal protective equipment.   |
| <b>Most Important Symptoms/Effects</b> | No information available.  |
| <b>Notes To Physician</b>              | Treat symptomatically.   |

### 5. FIRE-FIGHTING MEASURES

|                                     |  |
|-------------------------------------|--|
| <b>Flammable Properties</b>         | Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause flash fire. |
| <b>Suitable Extinguishing Media</b> | Foam, dry powder or water. Use extinguishing measures  |

|  |   |
|--|---|
|  | that are appropriate to local circumstances and the surrounding environment.  |
| <b>Protective Equipment And Precautions For Firefighters</b> | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.  |
| <b>Hazardous combustion products</b>                         | Burning may result in carbon dioxide, carbon monoxide and other combustion products of varying composition which may be toxic and/or irritating.  |
| <b>Specific Hazards Arising From The Chemical</b>            | Flammable. Flash back possible over considerable distance. Keep product and empty container away from heat and sources of ignition. Closed containers may rupture if exposed to fire or extreme heat. Thermal decomposition can lead to release of irritating gases and vapors. |
| <b>Sensitivity To Mechanical Impact</b>                      | No  |
| <b>Sensitivity To Static Discharge</b>                       | Yes   |
| <b>Flash Point Data</b>                                      |   |
| Flash Point (°F)   | 80  |
| Flash Point (°C)   | 27  |
| Method   | PMCC  |
| <b>Flammability Limits In Air</b>                            |   |
| Lower flammability limit:                                    | Not available   |
| Upper flammability limit:                                    | Not available   |

**NFPA**    **Health:** 2                      **Flammability:** 3                      **Instability:** 0                      **Special:** Not Applicable

#### NFPA Legend

- 0 - Not Hazardous
- 1 - Slightly
- 2 - Moderate
- 3 - High
- 4 - Severe

*The ratings assigned are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.*

*Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at [www.nfpa.org](http://www.nfpa.org).*

## 6. ACCIDENTAL RELEASE MEASURES

|                             |  |
|-----------------------------|--|
| <b>Personal Precautions</b> | Remove all sources of ignition. Take precautions to prevent flashback. Ground and bond all containers and handling equipment. Take precautionary measures against static discharges. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment. |
| <b>Other Information</b>    | Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Local authorities should be  |

advised if significant spillages cannot be contained.

**Environmental precautions** See Section 12 for additional Ecological Information.

**Methods for Cleaning Up** Dam up. Soak up with inert absorbent material. Use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

**Handling** Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not breathe vapors or spray mist. Use only in ventilated areas. Prevent vapor build-up by providing adequate ventilation during and after use.

Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and flame. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Ignition and/or flash back may occur.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition. Keep in properly labeled containers. Keep out of the reach of children.

**Incompatible Materials** Incompatible with strong acids and bases and strong oxidizing agents.

**Technical measures/Precautions** Ensure adequate ventilation. Use only where airflow will keep vapors from building up in or near the work area in adjoining rooms. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing and disposal of flammable liquids.

Dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. All equipment should be non-sparking and explosion proof. Use explosion proof electrical equipment for ventilation, lighting and material handling.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Limits

| Chemical name | ACGIH TLV                       | OSHA PEL                                     |
|---------------|---------------------------------|--|
| Xylene        | 100 ppm - TWA<br>150 ppm - STEL | 100 ppm - TWA<br>435 mg/m <sup>3</sup> - TWA |
| Ethyl benzene | 20 ppm - TWA                    | 100 ppm - TWA<br>435 mg/m <sup>3</sup> - TWA |

### Legend

ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits

OSHA - Occupational Safety & Health Administration Exposure Limits

N/E - Not Established

### Appropriate engineering controls

|                                      |   |
|--------------------------------------|---|
| <b>Engineering Measures</b>          | Ensure adequate ventilation, especially in confined areas.  |
| <b>Personal Protective Equipment</b> |   |
| <b>Eye/Face Protection</b>           | Safety glasses with side-shields. If splashes are likely to occur, wear:. Tightly fitting safety goggles.   |
| <b>Skin Protection</b>               | Long sleeved clothing. Protective gloves.   |
| <b>Respiratory Protection</b>        | Use only with adequate ventilation. In operations where exposure limits are exceeded, use a NIOSH approved respirator that has been selected by a technically qualified person for the specific work conditions. When spraying the product or applying in confined areas, wear a NIOSH approved respirator specified for paint spray or organic vapors. |
| <b>Hygiene Measures</b>              | Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.  |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                       |                          |
|---------------------------------------|--------------------------|
| <b>Appearance</b>                     | liquid                   |
| <b>Odor</b>                           | solvent                  |
| <b>Odor Threshold</b>                 | No information available |
| <b>Density (lbs/gal)</b>              | 7.2 - 7.3                |
| <b>Specific Gravity</b>               | 0.86 - 0.88              |
| <b>pH</b>                             | No information available |
| <b>Viscosity (cps)</b>                | No information available |
| <b>Solubility(ies)</b>                | No information available |
| <b>Water solubility</b>               | No information available |
| <b>Evaporation Rate</b>               | No information available |
| <b>Vapor pressure @20 °C (kPa)</b>    | No information available |
| <b>Vapor density</b>                  | No information available |
| <b>Wt. % Solids</b>                   | 0 - 10                   |
| <b>Vol. % Solids</b>                  | 0 - 10                   |
| <b>Wt. % Volatiles</b>                | 90 - 100                 |
| <b>Vol. % Volatiles</b>               | 90 - 100                 |
| <b>VOC Regulatory Limit (g/L)</b>     | Not applicable           |
| <b>Boiling Point (°F)</b>             | 278                      |
| <b>Boiling Point (°C)</b>             | 137                      |
| <b>Freezing Point (°F)</b>            | No information available |
| <b>Freezing Point (°C)</b>            | No information available |
| <b>Flash Point (°F)</b>               | 80                       |
| <b>Flash Point (°C)</b>               | 27                       |
| <b>Method</b>                         | PMCC                     |
| <b>Flammability (solid, gas)</b>      | Not applicable           |
| <b>Upper flammability limit:</b>      | No information available |
| <b>Lower flammability limit:</b>      | No information available |
| <b>Autoignition Temperature (°F)</b>  | No information available |
| <b>Autoignition Temperature (°C)</b>  | No information available |
| <b>Decomposition Temperature (°F)</b> | No information available |
| <b>Decomposition Temperature (°C)</b> | No information available |
| <b>Partition coefficient</b>          | No information available |

## 10. STABILITY AND REACTIVITY

|                   |                   |
|-------------------|-------------------|
| <b>Reactivity</b> | No data available |
|-------------------|-------------------|

|   |   |
|---|---|
| <b>Chemical Stability</b>                 | Stable under normal conditions. Hazardous polymerisation does not occur.  |
| <b>Conditions to avoid</b>                | Keep away from open flames, hot surfaces, static electricity and sources of ignition. Sparks. Elevated temperature. |
| <b>Incompatible Materials</b>             | Incompatible with strong acids and bases and strong oxidizing agents.   |
| <b>Hazardous Decomposition Products</b>   | Thermal decomposition can lead to release of irritating gases and vapors.   |
| <b>Possibility of hazardous reactions</b> | None under normal conditions of use.  |

## 11. TOXICOLOGICAL INFORMATION

### Product Information

#### Information on likely routes of exposure

**Principal Routes of Exposure** Eye contact, skin contact and inhalation.

#### Acute Toxicity

**Product Information** Repeated or prolonged exposure to organic solvents may lead to permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                                 |  |
|---------------------------------|--|
| <b>Eye contact</b>              | Causes serious eye irritation. May cause redness, itching, and pain.   |
| <b>Skin contact</b>             | May cause skin irritation and/or dermatitis. Prolonged skin contact may defat the skin and produce dermatitis.   |
| <b>Ingestion</b>                | Harmful if swallowed. Ingestion may cause irritation to mucous membranes. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death. |
| <b>Inhalation</b>               | Harmful by inhalation. High vapor / aerosol concentrations are irritating to the eyes, nose, throat and lungs and may cause headaches, dizziness, drowsiness, unconsciousness, and other central nervous system effects.                             |
| <b>Sensitization</b>            | No information available   |
| <b>Neurological Effects</b>     | No information available.  |
| <b>Mutagenic Effects</b>        | No information available.  |
| <b>Reproductive Effects</b>     | No information available.  |
| <b>Developmental Effects</b>    | No information available.  |
| <b>Target organ effects</b>     | No information available.  |
| <b>STOT - repeated exposure</b> | Causes damage to organs through prolonged or repeated exposure.  |
| <b>STOT - single exposure</b>   | May cause disorder and damage to the. Respiratory system.  |
| <b>Other adverse effects</b>    | No information available.  |

**Aspiration Hazard**

May be harmful if swallowed and enters airways. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 3502 mg/kg  
 ATEmix (dermal) 1391 mg/kg  
 ATEmix (inhalation-dust/mist) 1.9 mg/L

**Acute Toxicity****Component Information**Xylene

LD50 Oral: 4300 mg/kg (Rat)  
 LD50 Dermal: > 1700 mg/kg (Rabbit)  
 LC50 Inhalation (Vapor): 5000 ppm (Rat, 4 hr.)

Ethyl benzene

LD50 Oral: mg/kg (Rat)  
 LD50 Dermal: > mg/kg (Rabbit)  
 LC50 Inhalation (Vapor): mg/m<sup>3</sup> (Rat, 2 hr.)

**Carcinogenicity**

The information below indicates whether each agency has listed any ingredient as a carcinogen:.

| Chemical name | IARC                           | NTP | OSHA   |
|---------------|--------------------------------|-----|--------|
| Ethyl benzene | 2B - Possible Human Carcinogen |     | Listed |

**Legend**

IARC - International Agency for Research on Cancer  
 NTP - National Toxicity Program  
 OSHA - Occupational Safety & Health Administration

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity Effects**

The environmental impact of this product has not been fully investigated.

**Product Information****Acute Toxicity to Fish**

No information available

**Acute Toxicity to Aquatic Invertebrates**

No information available

**Acute Toxicity to Aquatic Plants**

No information available

**Persistence / Degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility in Environmental Media**

No information available.

**Ozone**

Not applicable

**Component Information****Acute Toxicity to Fish**Xylene

LC50: 13.5 mg/L (Rainbow Trout - 96 hr.)

Ethyl benzene

LC50: 12.1 mg/L (Fathead Minnow - 96 hr.)

**Acute Toxicity to Aquatic Invertebrates**Ethyl benzene

EC50: 1.8 mg/L (Daphnia magna - 48 hr.)

**Acute Toxicity to Aquatic Plants**Ethyl benzene

EC50: 4.6 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.)

**13. DISPOSAL CONSIDERATIONS****Waste Disposal Method**

Dispose of in accordance with federal, state, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

**Empty Container Warning**

Emptied containers may retain product residue. Follow label warnings even after container is emptied. Residual vapors may explode on ignition.

**14. TRANSPORT INFORMATION****DOT**

|                             |                         |
|-----------------------------|-------------------------|
| <b>Proper Shipping Name</b> | XYLENES                 |
| <b>Hazard class</b>         | 3                       |
| <b>UN-No.</b>               | UN1307                  |
| <b>Packing Group</b>        | III                     |
| <b>Description</b>          | UN1307, XYLENES, 3, III |

**ICAO / IATA**

Contact the preparer for further information.

**IMDG / IMO**

Contact the preparer for further information.

**15. REGULATORY INFORMATION**

**International Inventories**

**TSCA: United States**

Yes - All components are listed or exempt.

**DSL: Canada**

Yes - All components are listed or exempt.

**Federal Regulations**

**SARA 311/312 hazardous categorization**

Acute health hazard  
 Chronic Health Hazard  
 Fire hazard  
 Sudden release of pressure hazard  
 Reactive Hazard

Yes  
 Yes  
 Yes  
 No  
 No

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical name | CAS No.   | Weight-% | CERCLA/SARA 313<br>(de minimis concentration) |
|---------------|-----------|----------|---|
| Xylene        | 1330-20-7 | 80       | 1.0   |
| Ethyl benzene | 100-41-4  | 25       | 0.1   |

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

| Chemical name | CAS No.   | Weight-% | Hazardous Air Pollutant<br>(HAP)<br>Listed |
|---------------|-----------|----------|--|
| Xylene        | 1330-20-7 | 80       | Listed                                     |
| Ethyl benzene | 100-41-4  | 25       | Listed                                     |

**US State Regulations**

**California Proposition 65**

**WARNING:**  Cancer and Reproductive Harm – www.P65warnings.ca.gov

**State Right-to-Know**

| Chemical name | Massachusetts | New Jersey | Pennsylvania |
|---------------|---------------|------------|--------------|
| Xylene        | X             | X          | X            |
| Ethyl benzene | X             | X          | X            |
| Toluene       | X             | X          | X            |
| Benzene       | X             | X          | X            |

**Legend**  
 X - Listed



# **Chapter 7**

# **Environmental Stewardship**

## **Section 1 Environmental Rules and Requirements**

### **7-101 General**

### **7-102 Environmental Commitments Record**

7-102A Resident Engineer Responsibilities

### **7-103 Protection of Environmental Resources**

7-103A Biological Resources and Species Protection

7-103A (1) Resident Engineer Responsibilities

7-103A (2) Contractor Inspections

7-103A (3) Project Files

7-103B Environmentally Sensitive Area

7-103C Cultural Resources

7-103D Community Effects and Environmental Justice

7-103E Native American Concerns

7-103F Aesthetics

7-103G Paleontological Resources

7-103H Disposal, Staging, and Borrow Sites

7-103H (1) Caltrans- and Contractor-Designated Disposal, Staging, and Borrow Sites

7-103H (2) Surface Mining and Reclamation Act

7-103I Other Contractor Uses of the State Right-of-Way

### **7-104 Air, Water, and Noise Pollution Control**

7-104A Air Pollution Control

7-104A (1) Air Quality

7-104A (2) Dust Control

7-104B Water Pollution Control

7-104B (1) District Construction Stormwater Coordinator Responsibilities

7-104B (2) Resident Engineer Responsibilities

7-104B (3) Stormwater Inspector Responsibilities

7-104B (4) Contractor Inspections

7-104B (5) Amendment Review and Processing

7-104B (6) Project Files

7-104B (7) Contractor Files

7-104C Noise Control

### **7-105 Permits, Licenses, Agreements, and Certifications**

7-105A Special Use Permits and Other Federal Permits

7-105B California Fish and Game Code Sections 1602 and 5650

7-105C List of Potential Permits, Licenses, Agreements, and Certifications

Table 7-1.1. State and Local Agency Permits, Licenses, Agreements, and Certifications (1 of 3)

Table 7-1.1. State and Local Agency Permits, Licenses, Agreements, and Certifications (2 of 3)

Table 7-1.1. State and Local Agency Permits, Licenses, Agreements, and Certifications (3 of 3)

Table 7-1.2. Federal Agency Permits, Licenses, Agreements, and Certifications (1 of 2)

Table 7-1.2. Federal Agency Permits, Licenses, Agreements, and Certifications (2 of 2)

**7-106 Hazardous Materials**

**7-107 Hazardous Waste and Contamination**

7-107A Contractor-Generated Hazardous Waste Versus Caltrans-Generated Hazardous Waste

7-107B Aerially Deposited Lead

7-107B (1) Unregulated Material

7-107B (2) Regulated Material

7-107B (3) Minimal Disturbance of Regulated Material Containing Aerially Deposited Lead

7-107C Naturally Occurring Asbestos

7-107D Caltrans-Generated Contaminated Soil

7-107E Removing Yellow Traffic Stripe and Pavement Marking with Hazardous Waste Residue

7-107F Disturbance of Existing Paint Systems on Bridge

7-107G Treated Wood Waste

7-107H Disposal of Electrical Equipment Requiring Special Handling

7-107I Unanticipated Discovery of Hazardous Waste and Contamination

**7-108 Crumb Rubber Usage Reporting**

**7-109 Solid Waste Disposal and Recycling Reporting**

Figure 7-1.1. Unknown Hazards Procedure

**7-110 Certificate of Environmental Compliance**

## **Section 1 Environmental Rules and Requirements**

### **7-101 General**

This section provides information and guidelines for administering the various environmental requirements for Caltrans construction contracts.

The district Construction deputy director is responsible for ensuring that environmental permit, license, agreement, and certification (PLAC) requirements are enforced. Within district Construction, stormwater coordinators are appointed. Within either the district environmental or district Construction Unit, environmental construction liaisons are appointed. The environmental construction liaisons must have appropriate training, background, and experience to facilitate effective communications necessary to carry out the responsibilities of both district Construction and the district Environmental Unit. To meet legal requirements, district Construction staff must coordinate and communicate with environmental staff, possess appropriate skills, receive appropriate training, and understand their role in successfully carrying out environmental commitments, including PLACs, within the contract requirements.

### **7-102 Environmental Commitments Record**

Caltrans established the environmental commitments record (ECR) in a memo dated June 5, 2005, from the chief engineer to assure that Caltrans meets its environmental commitments for each project by:

- Documenting all environmental commitments including PLACs.
- Specifying how each commitment will be met.
- Documenting the completion of each commitment.

The ECR contains all relevant environmental compliance information and PLAC requirements; basic project information, including each environmental commitment, person, or unit responsible for commitment completion; timing and manner of implementation; location; and a commitment reference document and other commitment requirements. The ECR is part of the resident engineer's pending file and is necessary to oversee and track the project environmental commitments. It is used to prepare the Certificate of Environmental Compliance (CEC) during contract acceptance.

The resident engineer will review the ECR with the environmental construction liaison or district Environmental Unit during the preconstruction meeting with Caltrans personnel before meeting with the contractor. The environmental construction liaison or district Environmental Unit can assist with discussing the requirements at the preconstruction meeting. The resident engineer monitors the progress of all construction-related environmental commitments on an ongoing basis

throughout the life of the contract and verifies their implementation. Commitments completed during construction should be tracked on the ECR.

The following are necessary for meeting environmental commitments during construction as required by Caltrans policy and law. Refer to Sections 7-103 through 7-109 of this manual for additional requirements specific to:

- Environmental resources
- Air, noise, and water pollution control
- Permits, licenses, agreements, and certifications (PLACs)
- Hazardous materials
- Hazardous waste and contamination
- Crumb rubber usage reporting
- Solid waste disposal and recycling reporting

#### 7-102A Resident Engineer Responsibilities

The resident engineer uses all available assistance and expertise to understand and meet the commitments listed in the ECR. This assistance may come from the environmental construction liaison, stormwater coordinators, project biologist, or other functional areas in the district or region, such as design, cultural resources, hazardous waste, paleontology, hydraulics, or the public information office.

Before work begins, the resident engineer must do the following:

- Verify that the resident engineer's pending file contains the ECR. An ECR is required for every project; if it is missing, contact the project engineer to obtain it.
- Review the resident engineer's pending file, ECR, PLACs, construction contract, and Sections 13, "Water Pollution Control," and 14, "Environmental Stewardship," of the *Standard Specifications* for commitments.
- Identify notices, required approvals, and actions necessary to meet regulatory requirements and stewardship goals.
- Meet with the environmental construction liaison, district Construction stormwater coordinator, project biologist, and appropriate environmental and engineering experts in the district to share a full understanding of the contract requirements and commitments listed in the ECR.
- Depending on the project's size and complexity, an additional preconstruction meeting may be used exclusively for discussing environmental commitments and requirements.
- Review Sections 10-1.03, "Time Constraints," 13, "Water Pollution Control," and 14, "Environmental Stewardship," of the *Standard Specifications* and the special provisions for water pollution control and environmental time constraints. Make sure those time constraints are reflected in the critical path method baseline schedule, including submittal review times.

During the course of work, the resident engineer must do the following:

- Periodically meet with the environmental construction liaison to review the ECR and confirm that environmental commitments required by the contract will be met.
- Inspect the contractor's operations for compliance with the specifications and the PLACs.
- Before submitting a change order or an authorization to proceed with change order work, review the change order work with the environmental construction liaison to confirm that the proposed change does not adversely affect environmental commitments.
- Verify that the contractor notifies and obtains the resident engineer's approval in advance for each new activity as required. Check that the contractor's schedule is coordinated with necessary environmental activities.
- Direct the contractor to correct any identified deficiencies in environmental compliance efforts.
- Should noncompliance occur, initiate contractual enforcement procedures appropriate to the nature and severity of the situation.

Before accepting the contract, the resident engineer must do the following:

- Verify that all environmental commitments required by the PLACs and by the contract have been met.
- Require the contractor to remove temporary best management practices (BMP) measures, such as environmentally sensitive area (ESA) fences or other measures unless the BMP measures are part of permanent measures or requested to be left in place by the district Maintenance Unit.
- Conduct a final walk-through of the project area with the environmental construction liaison.

### **7-103 Protection of Environmental Resources**

This section contains guidelines for protecting and preserving environmental resources, such as biological, cultural, Native American, or paleontological items, and administering the contract's environmental resource requirements during construction as required by Caltrans policy and law.

#### **7-103A Biological Resources and Species Protection**

Both state and federal laws protect designated plant and animal species and their respective habitats. Strict prohibitions exist on certain types of work, work during certain times of the year, or work at specific locations. Even inadvertently affecting protected species can result in fines or jail sentences and may result in significant project delays. The PLACs and species protection measures in the contract will specify the necessary protection measures and restrictions, and the plans will show ESAs. However, during construction, project staff or personnel from regulatory agencies may discover protected species that were not anticipated in the contract. If

such a discovery occurs, suspend work in the area and immediately notify the environmental construction liaison, project biologist, or district Environmental Unit.

The U.S. Migratory Bird Treaty Act and the California Fish and Game Code make it illegal to harm migratory birds, nongame birds, and their occupied nests. Activities that are most likely to encounter migratory birds, nongame birds, and their occupied nests include clearing and grubbing; and bridge demolition, maintenance, and retrofit work. Bird protection is a subset of species protection. Species protection responsibilities apply to bird protection. PLACs and the bird protection or species protection measures in the contract will specify the necessary protection measures and restrictions, and the plans will show any ESAs.

When occupied nests are found within the project area, the resident engineer will evaluate, with the assistance of the environmental construction liaison or project biologist, whether work in the area can continue or if suspension of work is necessary. The resident engineer will immediately contact the environmental construction liaison or district Environmental Unit for assistance in this evaluation.

#### *7-103A (1) Resident Engineer Responsibilities*

The resident engineer uses all available assistance and expertise to protect natural resources. This assistance may come from the environmental construction liaison, contractor-supplied biologist, project biologist or other state-furnished biologist, or other functional areas in the district, such as design, cultural resources, stormwater, hazardous waste, paleontology, and hydraulics.

Before work begins, the resident engineer must do the following:

- When the contract specifies a contractor-supplied biologist, regulatory agency approvals may be required before accepting the contractor-supplied biologist. Do not accept submittals from the contractor-supplied biologist until approval is obtained. Understand that a contractor-supplied biologist works for the contractor and does not speak for Caltrans.
- Meet with the environmental construction liaison, project biologist, and appropriate environmental and engineering experts in the district to share a full understanding of the contract requirements for species and natural resource protection.
- If an ECR-required Biological Resource Information Program (BRIP) has been prepared by Caltrans, supply a copy to the contractor. If the specifications require the contractor to prepare a BRIP, coordinate a review with the environmental construction liaison or project biologist. Only accept the BRIP if it complies with the PLACs and provisions of the contract.
- If there is a bid item for a natural resource protection plan, Section 14-6.03D(2), "Natural Resource Protection Plan," of the *Standard Specifications* will apply. Coordinate review of the contractor's natural resource protection plan with the environmental construction liaison or project biologist. Note that the specifications prohibit any work that has the potential to adversely affect protected species and their habitat without permission from regulatory agencies.

- Before earthwork or clearing and grubbing begins, request that required preconstruction biological surveys be completed and results be provided to understand regulatory requirements that may delay activities.
- When work occurs in water, or where vibrations or sounds from construction or other project-related activities may pass into waters, review hydroacoustic requirements for the protection of water-dependent species and assure that necessary protections, approvals, monitoring activities, and reports are complete or active as required.
- Designate appropriate staff to assist in preventing adverse effects to biological resources as needed.

During the course of work, the resident engineer must do the following:

- If required by the specifications or PLACs, maintain a copy of the BRIP on the project site and make sure that staff completes required training.
- Inspect the contractor's operations for compliance with the specifications and the PLACs, the biological provisions, and the accepted natural resource protection plan, when required.
- Verify that the contractor adheres to the monitoring or survey schedule set forth in the PLACs, the biological provisions, and the accepted natural resource protection plan, and provides written reports of these inspections on schedule.
- Verify that the contractor maintains species protection measures so that they will function as planned.
- Check that the contractor has the necessary staff and materials on hand to inspect and maintain species protection measures.
- Assure that the contractor notifies and obtains the resident engineer's approval in advance for each new activity, as required. Make sure the contractor's schedule is forwarded to the environmental construction liaison or project biologist and coordinated with necessary resource monitoring.
- Assure that construction does not result in new barriers to aquatic species passage or create issues with maintenance of existing passages.
- Immediately notify the environmental construction liaison and project biologist when protected resources are affected or may be affected by project activities. The project biologist will determine what action is necessary and will advise the resident engineer.
- If necessary, meet with personnel from regulatory agencies, such as the U.S. Fish and Wildlife Service; Environmental Protection Agency (EPA); Army Corps of Engineers; National Oceanographic and Atmospheric Agency, National Marine Fisheries Service; and the California Department of Fish and Wildlife, to discuss protected natural resources and measures to protect resources. The environmental construction liaison or project biologist will assist in discussions and negotiations.

Before accepting the contract, the resident engineer must do the following:

- As required by the PLACs and by the contract, determine that all biological requirements are complete.
- Verify that the project has not maintained or created barriers to aquatic organism passage.
- Conduct a final walk-through of the project area with the project biologist.

#### *7-103A (2) Contractor Inspections*

The PLACs and special provisions for species protection may require the contractor to inspect the job site periodically for the proper implementation, performance, and maintenance of species protection measures. The contractor must follow the species protection measures specified in the PLACs, special provisions, and natural resource protection plan, and may be required to report on activities.

If any situation constitutes potential noncompliance with the permit, the resident engineer must conduct a verification inspection, and, if a noncompliant condition exists, report it to the environmental construction liaison or project biologist. The environmental construction liaison or project biologist will coordinate with the district environmental office to determine the actions required, including timely reporting to regulatory agencies and necessary options for compliance. The resident engineer must require the contractor to amend the natural resource protection plan, if necessary, and to install additional species protection measures to achieve compliance.

#### *7-103A (3) Project Files*

The resident engineer must keep copies of all applicable documents related to species protection measures as required in PLACs, special provisions, BRIP, and the natural resource protection plan, and retain copies in Category 18, "Agreements," of the project files. Retain all the required documents for at least 3 years after contract completion, or longer if required in the PLACs. Provide specific disposition instructions in Category 18, "Agreements," when retention beyond 3 years is required. These documents include the following:

- Periodic reports and photographs related to species protection as required
- Notification documentation of regulated species as required by PLACs
- All correspondence related to species protection, including notices of noncompliance
- Inspection, survey, and monitoring reports supplied by the contractor, environmental construction liaison, or project biologist
- Inspection reports from the resident engineer and assistant resident engineer
- Copies of the approvals and certifications required by the specifications

#### 7-103B Environmentally Sensitive Area

The ESA is shown approximately on the plans and creates a secure area within the plan boundaries enclosed by a temporary fence (Type ESA). The resident engineer

should consult with the environmental construction liaison when marking the exact boundaries of the ESA. If the area is breached, immediately secure it, stop all operations within 60 feet of the boundary, and verify that the contractor follows the directions in Section 14-1.02, "Environmentally Sensitive Area," of the *Standard Specifications*. The resident engineer will consult with the environmental construction liaison, project biologist, or project cultural specialist before approving entry into an ESA and when identifying or assessing damage. If the ESA is damaged, document the damage and, through consultation with the environmental construction liaison or district Environmental Unit, determine the necessary remediation including the party to perform the remediation work. Take an administrative deduction for the cost of the work when applicable, as covered by Sections 3-906G, "Deductions," and 5-103F (1c), "Deductions," of this manual.

#### 7-103C Cultural Resources

Mitigating a project's effect on historical and archaeological sites during construction may require the recovery of artifacts. Mitigation may also require Native Americans, archaeologists, architects, and historians to monitor and coordinate the recovery process. Normally, archaeological work is done in advance of construction, but occasionally finds are made during construction. If human remains or previously unknown historic and archaeological artifacts are unearthed, suspend work in the vicinity until the find can be evaluated and properly treated. Seek assistance from the project manager, environmental construction liaison, project cultural specialist, or district Environmental Unit. For more information, refer to the *Standard Environmental Reference*, Vol. 2, "Cultural Resources."

#### 7-103D Community Effects and Environmental Justice

Mitigating project effects on communities during construction may require actions in the community. These requirements may be included as part of the contract, including change orders, but they can also be listed as an item on the ECR. Also, refer to Section 8-2, "Equal Employment Opportunity," of this manual regarding Title VI of the Civil Rights Act of 1964 and environmental justice.

Executive Order 12898, "Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations," directs federal agencies to achieve environmental justice by identifying and addressing disproportionately high and adverse human health and environmental effects, including the interrelated social and economic effects of their programs, policies, and activities on minority and low-income populations in the United States.

#### 7-103E Native American Concerns

These requirements are placed to alleviate concerns of the Native American community. If resources of concern to Native Americans, human remains, or previously unknown associated artifacts are unearthed, suspend work in the vicinity until the concern can be evaluated and properly resolved. Seek assistance from the project manager, environmental construction liaison, project cultural specialist, or

district Environmental Unit. For more information, refer to the *Standard Environmental Reference*, Vol. 2 at:

<https://dot.ca.gov/programs/environmental-analysis/standard-environmental-reference-ser>

### 7-103F Aesthetics

Aesthetics are considered during the planning, design, and construction of transportation projects to adequately address a transportation project's visual effects and to help integrate the facility into the surrounding context. Aesthetic features included in the construction documents are the result of commitments included in the environmental document or made to the community to address scenic, aesthetic, historic, cultural, environmental, and recreational values. The integration and construction of these aesthetic features on a project is critical to fulfilling the aesthetic commitments.

Proposed changes to the plans and specifications that affect the aesthetic features must be coordinated with and approved by the district landscape architect to assure that Caltrans' aesthetic commitments are accomplished as intended.

### 7-103G Paleontological Resources

Paleontological resources are evidence of ancient life, not including human life, preserved as fossils in sediments and rock. In geologically diverse California, vertebrate, invertebrate, and plant fossils are found throughout the state.

Paleontological resources have unique scientific value and, as a result, must be protected. Refer to Chapter 8, "Paleontology," of the *Standard Environmental Reference* Vol. 1, for information about applicable laws.

Paleontological resources may be encountered when a project includes invasive activities such as excavation or drilling of previously undisturbed sediments and rock. If paleontological resources are anticipated, the contract should include special provisions in accordance with Section 14-7, "Paleontological Resources," of the *Standard Specifications*. Protection of paleontological resources usually includes preservation of scientific information through monitoring, and fossil and data recovery. This work is normally performed by a consultant working directly for Caltrans, not the construction contractor. In these cases, the resident engineer must assure the coordination and cooperation of the construction contractor with the paleontological consultant. This is accomplished by including the paleontological consultant in preconstruction meetings, providing the paleontological consultant with an accurate and updated schedule of subsurface disturbing activities, and, when required, making sure that the contractor's staff attends paleontological awareness training presented by the paleontological consultant.

In most cases, paleontological monitoring and fossil and data recovery can be performed with minimal effect on construction activities. However, when large specimens or fossil-rich areas are encountered, excavation activities may need to be temporarily diverted while the paleontological team stabilizes and removes them. In

these cases, the resident engineer must facilitate coordination and cooperation between the paleontological monitoring team and the construction contractor.

If unanticipated paleontological resources are encountered, the construction contractor is directed to stop work within a 60-foot radius of the discovery and contact the resident engineer. The resident engineer must contact the environmental construction liaison who will enlist the assistance of the appropriate technical staff to investigate the discovery. Work in the area of discovery cannot resume until the find has been properly evaluated and recovery activities completed as necessary. The remaining construction activities must be evaluated in context of the discovery and monitoring may be required. If monitoring is required, it may be accomplished through either a separate contract (preferred) or a subcontract through the prime construction contractor. In either case, assistance from the environmental construction liaison or district Environmental Unit will be necessary.

After excavation is complete, a paleontological mitigation report will be prepared by the paleontological consultant. After receiving the report, the resident engineer must coordinate with the environmental construction liaison or district Environmental Unit to update the ECR. If fossils are recovered from the project, they will be properly curated. The resident engineer must coordinate with the environmental construction liaison or district Environmental Unit to verify that funding is made available to pay for reporting and curation activities performed by the consultant.

#### 7-103H Disposal, Staging, and Borrow Sites

Caltrans construction projects often require contractors to make use of either state-owned or private off-site lands and facilities for the disposal of excess materials; the acquisition of necessary borrow materials; and to stage equipment, store supplies, and house their offices. Contract documents generally require the contractor to show that construction activities on these sites comply with all local, state, and federal environmental and permitted use regulations. However, in some geographic locations there have been issues regarding final compliance responsibility. To resolve these issues and to foster better cooperation with regulatory agencies, the option of designating disposal, staging, and borrow (DSB) sites has been facilitated.

Construction projects that cannot accommodate the needs of the project within the right-of-way may have designated sites outside the project limits. However, even when such sites are made available, the contractor will continue to have the flexibility of using alternative sites. Alternative sites selected by the contractor require the contractor to prepare a submittal to the resident engineer for approval. Requirements for this submittal are outlined in the following section, and additional guidance is available at the Design Memoranda for Designated Disposal, Staging, and Borrow Sites:

<https://dot.ca.gov/programs/design/design-memoranda>

The need for identifying and obtaining environmental approvals for a designated DSB site will generally have been made by the project engineer on a case-by-case basis, considering historical and geographical issues and practices, project design requirements, environmental concerns, economic factors, and other aspects specific

to projects and their locale. During project development, the project engineer should have considered and identified sites readily available for use by the contractor. These sites would have included, but not be limited to, commercial dumpsites, recycling plants, private property, and other local sites. If it was deemed necessary that one or more DSB sites needed to be designated, the project engineer would have proposed sites evaluated during the environmental review process and, as necessary, included them in the environmental compliance documentation. To assure their availability to the contractor, right-of-way agreements would have been obtained for private sites selected as designated DSB sites. Any necessary permits would have been included among those obtained during the plans, specifications, and estimate development. Information or documents regarding arrangements made by Caltrans to assure the availability of designated sites are provided to prospective bidders or contractors in a materials information handout.

Following are summaries for the minimum items expected in: (1) a DSB site submittal for a site designated by Caltrans; and (2) a summary of the minimum items expected in a DSB site submittal for a contractor to get approval for the use of an alternate site. File submittal and support documents in the project files.

#### *7-103H (1) Caltrans- and Contractor-Designated Disposal, Staging, and Borrow Sites*

For Caltrans-designated sites:

- Caltrans will:
  1. Provide a general site plan, including site limits and access roads.
  2. Obtain temporary property owner agreements as necessary to “reserve” property.
  3. Prepare California Environmental Quality Act or National Environmental Policy Act documentation, as needed, in consultation with the Environmental Unit.
  4. Verify the existence of or obtain the necessary PLACs to satisfy regulatory agencies and assure site availability in consultation with the Environmental Unit.
  5. Review and accept the contractor’s submittal.
- The contractor will:
  1. Prepare a final grading plan in conformance with the *Standard Specifications*.
  2. Provide a release of liability.
  3. Provide final property owner agreements. Refer to Section 3-603, “Local Materials,” of this manual.
  4. Submit a written plan for water pollution prevention in conformance with the *Standard Specifications*.

For alternative sites selected by the contractor:

- Caltrans will review and accept the contractor’s submittal.
- The contractor will:
  1. For borrow sites, demonstrate that the site is either not subject to or is in compliance with the Surface Mining and Reclamation Act (SMARA). If the borrow site is not subject to SMARA, confer with the environmental construction liaison or district Environmental Unit to assure that the borrow site is not a potential contamination source.
  2. For all DSB sites:
    - Provide a site plan, including site limits and access roads.
    - Obtain and provide property owner agreements; refer to Section 3-603, “Local Materials,” of this manual.
    - Provide a release of liability.
    - Provide environmental documentation prepared by appropriately qualified environmental specialists.
    - Obtain or update all necessary PLACs.
    - Determine the final grading plan in conformance with the *Standard Specifications*.
    - Submit a written plan for water pollution prevention in conformance with the *Standard Specifications*.

*7-103H (2) Surface Mining and Reclamation Act*

Section 10295.5 of the Public Contract Code requires that Caltrans buy or accept sand, gravel, aggregates, or other mined materials, including imported borrow, from mining operations that are in compliance with or not subject to SMARA. The resident engineer can use the list of mining operations in compliance with SMARA, also called the “AB 3098 List,” to verify which mining operations are in compliance. The current list may be obtained from the Department of Conservation website:

<https://www.conservation.ca.gov/dmr/smara-mines>

Mining operations that meet the following criteria are not subject to SMARA and are not required to be on the AB 3098 List:

- A total amount of mined materials less than 1,000 cubic yards in any one location of 1 acre or less
- Onsite excavations and onsite earth-moving activities on a Caltrans construction project that are an integral and necessary part of the project
- Materials mined from federal lands, except for lands that the Bureau of Land Management and Forest Service regulate
- Materials mined from tribal lands, when mined by a tribal mining operator
- Materials mined from outside of California

Review contractor-proposed sources and verify that the source is on the current AB 3098 List. If the contractor proposes to use mined material from a mining operation not on the AB 3098 List, obtain from the contractor proof that the operation is not subject to SMARA, in accordance with the criteria above, and confirm with the Department of Conservation. Contact the Division of Mine Reclamation, Reporting Unit, at: [DMR-Reporting@conservation.ca.gov](mailto:DMR-Reporting@conservation.ca.gov) or (916) 323-9198.

SMARA allows the State Mining and Geology Board to exempt certain mining operations or construction projects. Caltrans can accept material from exempted sources if the contractor provides proof of the board-granted exemption.

If the proposed site is not on the AB 3098 List, and the contractor cannot demonstrate that the site is not subject to SMARA or that an exemption has been granted, the resident engineer must not accept the contractor's submittal. Refer challenges to the acceptance of materials to the Division of Construction field coordinator.

#### 7-103I Other Contractor Uses of the State Right-of-Way

The contractor's use of Caltrans-owned parcels that are outside of the project limits will be contingent upon approval by the resident engineer, based on:

- The DSB site submittal
- Execution of a fair market rental agreement with Caltrans
- Execution of an encroachment permit by the district permit engineer

The resident engineer should consult with the project engineer and environmental construction liaison or district Environmental Unit before approving the DSB site submittal. For more information, refer to Section 3-516, "Areas for Use," of this manual.

#### **7-104 Air, Water, and Noise Pollution Control**

This section contains guidelines for administering the contract's air, water, and noise requirements.

##### 7-104A Air Pollution Control

###### *7-104A (1) Air Quality*

Section 7-1.02C, "Emissions Reduction," of the *Standard Specifications* states that the contractor, by executing the contract, is aware of California Air Resources Board (ARB) regulations and will comply with those regulations before starting work and throughout the duration of the contract.

The resident engineer does not need to verify that the contractor's equipment complies with ARB regulations. The local air quality control district or air quality management district, commonly referred to as the "air district," is responsible for enforcing air quality regulations. If complaints are brought to the resident engineer's attention, the resident engineer should direct the complainant to file the complaint with the local air district.

If the complaining party insists that Caltrans handle the situation, the resident engineer should forward the complaint to the local air quality control district, based on project location, and send the contractor a copy of the complaint filed.

A list of local air quality control districts, contacts, and addresses is available at:

<https://ww2.arb.ca.gov/air-pollution-control-districts>

All Caltrans projects must comply with the Clean Air Act. Permits are issued by local air quality management districts and require that the project create no smoke, offensive odors, or visible dust. Contractors must take appropriate measures to make sure their equipment is properly maintained and to apply water and other dust palliatives as frequently as necessary. Violations can result in fines and sanctions against the contractor and Caltrans.

#### *7-104A (2) Dust Control*

Under the terms of the project contract, the contractor must control dust. The contractor must maintain such control whether payment is included in the prices paid for the various items of work involved or whether payment is made separately. Refer to Sections 4-10, "General Construction," and 4-18, "Dust Palliatives," of this manual for additional guidance related to dust control.

During the preliminary inspection, before work begins, take the following steps:

- Determine whether a planned method to control dust is included in the contractor's accepted plan for water pollution prevention.
- Whenever it is proposed to handle temporary traffic changes on an unpaved roadway, anticipate the necessity for dust control. Notify and require corrective action whenever the contractor is not adequately controlling dust. In cases of neglect, work may be suspended under the resident engineer's authority, pursuant to Section 8-1.06, "Suspensions," of the *Standard Specifications*.

#### 7-104B Water Pollution Control

To assure control of pollutants in discharges of stormwater runoff, Caltrans construction projects may be subject to federal law under the Clean Water Act and state law under the California Water Code. All Caltrans construction projects are subject to the Caltrans National Pollutant Discharge Elimination System (NPDES) permit issued by the State Water Resources Control Board (SWRCB) and one of the following NPDES permit requirements: the statewide Construction General Permit (CGP) issued by the SWRCB, the Lake Tahoe CGP issued by the Lahonton Regional Water Quality Control Board (RWQCB), or the federal CGP issued by the EPA. The project specifications should identify which permits apply to the project.

For each construction project, the contractor must prepare either a stormwater pollution prevention plan (SWPPP) or a water pollution control program (WPCP) in accordance with Section 13, "Water Pollution Control," of the *Standard Specifications*, Caltrans' *Stormwater Quality Handbooks*, and the contract's special provisions. These documents describe the measures the contractor must implement to prevent construction activities from polluting the waters of the United States. The

resident engineer must authorize all such preventive measures, and then the contractor's forces must implement and maintain the measures.

Successfully protecting water resources, such as streams, waterways, and other bodies of water, and protected water-dependent species from pollution is critical to the project's success. Water resources must be protected from chemical pollutants, including petroleum products, paint residues, and curing compounds, and from sediment in stormwater runoff. Caltrans has developed an evaluation plan to review the contractor's water pollution control program and to evaluate construction projects for overall adequacy in implementing stormwater pollution prevention measures. The Construction Compliance Evaluation Plan provides a process for evaluating the potential threat to water quality from predicted storm events. The plan also separates water quality compliance from stormwater contract administration.

For projects covered by the statewide or Lake Tahoe CGP, permit registration documents and other permit-related compliance documents must be filed electronically with the SWRCB through the Storm Water Multiple Application and Report Tracking System (SMARTS) at:

<https://smarts.waterboards.ca.gov/smarts/faces/SwSmartsLogin.xhtml>

All requests to start construction, Notices of Intent, requests for termination of a project, Notices of Termination, and interim reporting are made through SMARTS.

To set up a SMARTS profile, the CGP and SMARTS require establishment of certain responsibilities, including:

- The legally responsible person (LRP)
- The approved signatory
- A data entry person

For Caltrans, the LRP is the district director, although as many as three backups may be designated to perform the same duties, with responsibility for permit compliance and designating the approved signatory for the project. Assignment of an approved signatory is accomplished by the linking process in SMARTS as detailed in the *SMARTS User's Manual*. The manual is posted on the Division of Construction Stormwater Training Presentations intranet page.

A project can have more than one approved signatory. The resident engineer is responsible for the project data submitted in SMARTS and must be designated an approved signatory. The LRP may link other approved signatories to the project as necessary to support project delivery. Documentation for SMARTS submittals comes from various members of a project development team; however, the approved signatory is responsible for submitting permit registration documents, the Notice of Intent, discharge reports, annual reports, ad hoc reporting, and Notice of Termination certification.

A data entry person may be any Caltrans staff member or contractor's personnel designated by the LRP or approved signatory to input information into SMARTS.

The Notice of Intent provides the RWQCBs with details about the project and is a request for coverage under the CGP. The process involves filing project-related information and the project SWPPP. Obtain information necessary to complete the SMARTS Notice of Intent from the project “Storm Water Data Report Attachment for SMARTS Input.”

Reporting in SMARTS is accomplished by entering data into specific tabs or by uploading documents. For example, the Notice of Intent is created by entering data in the fields under the Notice of Intent tab, whereas the project SWPPP and its amendments are uploaded into the system. There are also screens for discharge reporting, annual reports, and other permit-related project reports. The approved signatory may certify submittals in SMARTS and, when applicable, will need to provide the qualified SWPPP developer’s certification. Hard copies of these documents must be maintained in the project files.

Section II.D, “Obtaining and Terminating Permit Coverage,” of the CGP fact sheet details when a project is complete and a Notice of Termination is appropriate. Consult with the project engineer to verify that the conditions have been satisfied. For additional guidance, refer to:

[https://www.waterboards.ca.gov/water\\_issues/programs/stormwater/constpermits.shtml](https://www.waterboards.ca.gov/water_issues/programs/stormwater/constpermits.shtml)

#### *7-104B (1) District Construction Stormwater Coordinator Responsibilities*

District Construction must have at least one designated district Construction stormwater coordinator who will carry out necessary administrative functions to prevent water pollution. This coordinator reviews the contractor’s SWPPP or WPCP, visits projects, and acts as technical advisor to the resident engineer. The coordinator evaluates projects for potential threats to water quality and the effectiveness of stormwater contract administration. The district Construction stormwater coordinator works with other functional areas in the district, assists resident engineers to verify compliance, and assures that field construction personnel are appropriately trained.

#### *7-104B (2) Resident Engineer Responsibilities*

The resident engineer uses all available assistance and expertise in preventing water pollution. This assistance may come from the district Construction stormwater coordinator, environmental construction liaison, or other functional areas in the district, such as landscape architecture, environmental analysis, and hydraulics.

Before work begins, the resident engineer must do the following:

- Designate appropriate staff as stormwater inspectors to assist in preventing stormwater pollution.
- Review the construction contract and the resident engineer’s file for instructions and commitments.
- Verify that permit registration documents are submitted into SMARTS.

- Verify that all proper forms have been filed with the RWQCB.
- Meet with the appropriate environmental and engineering experts in the district to assure a full understanding of the contract requirements for water pollution prevention.
- Conduct a preconstruction meeting with the contractor to discuss all required stormwater measures and requirements. Depending on the project's size and complexity, this preconstruction meeting may be used exclusively for discussing water pollution prevention or the topic may be included in a general preconstruction meeting.
- Provide the contractor with a copy of the district Design Unit's conceptual SWPPP for the project, if one has been prepared.
- Review and authorize the contractor's SWPPP or WPCP as required by the specifications. The district construction stormwater coordinator may assist in the review. Note that before the resident engineer has authorized the plan, the specifications prohibit any job site activities. If a RWQCB requires review of the authorized SWPPP, job site activities are prohibited until the board reviews and comments on the authorized SWPPP.
- Before any job site activities begin, make sure the contractor deploys any stormwater measures called for in the SWPPP or WPCP.

During the course of work, the resident engineer must do the following:

- Maintain a copy of the authorized SWPPP or WPCP on the project site.
- Inspect the contractor's operations for compliance with the specifications and the authorized SWPPP or WPCP, including deployment of best management practices measures.
- Check that the contractor adheres to the inspection schedule set forth in the SWPPP or WPCP and provides written reports of these inspections.
- Verify that the contractor prepares and submits Form DOT CEM-2045, "Rain Event Action Plan," or Form DOT CEM-2045T "Rain Event Action Plan—Lake Tahoe Hydrologic Unit" if applicable, for risk levels 2 and 3 on SWPPP projects.
- Verify that the contractor prepares and submits project annual reports.
- Check that the contractor deploys stormwater and nonstormwater best management practices measures whenever associated construction activities are taking place.
- Check that the contractor maintains best management practices measures so that they will function as planned.
- Check that the contractor has the necessary materials on hand to deploy any necessary additional measures in the event of a storm.
- Check that the contractor uses appropriate measures to stabilize slopes at the times specified. In accordance with the specifications, verify that the contractor

submits an implementation schedule for soil stabilization and sediment control for disturbed soil areas.

- Verify that the contractor complies with any provisions that restrict the size of the contractor's disturbed soil area.
- Make sure the contractor notifies the resident engineer and obtains the resident engineer's authorization in advance for each first-time nonstormwater discharge, excluding exempted discharges.
- Monitor the contractor's active and nonactive disturbed soil areas.
- Verify that the contractor conducts soil stabilizing activities as specified.
- Check that the contractor's water pollution protection plan addresses avoiding water quality effects from removal of bird nests on bridges and other structures over or near water during pre-nesting seasons.
- Direct the contractor to correct any deficiencies in compliance efforts identified in the contractor's or district Construction stormwater coordinator's project evaluation reports.
- If any pollutants are discharged into the waters of the United States, notify the district Construction stormwater coordinator immediately. Review the NPDES permit and Statewide Stormwater Management Plan to determine the appropriate reporting timeframe, and provide a draft report of noncompliance to the district NPDES stormwater coordinator. Unless otherwise indicated in the district or regional work plans, the district NPDES stormwater coordinator will then forward the report to the RWQCB. For SWPPP projects, require the contractor to prepare Form DOT CEM-2061, "Notice of Discharge Report," or Form DOT CEM-2061T "Notice of Discharge Report—Lake Tahoe Hydrologic Unit Stormwater Sample Field Test Report/Receiving Water Monitoring Report" if applicable.
- Report to the district Construction stormwater coordinator any illegal discharges or illicit connections. Require the contractor to prepare Form DOT CEM-2061 or Form DOT CEM-2061T, if applicable, as specified in the SWPPP.
- Should noncompliance occur, initiate contractual enforcement procedures commensurate with the nature and severity of the noncompliance. Contract enforcement may include the following:
  - Withholding funds from contract payment as specified in the contract.
  - Suspending any work that would exacerbate the noncompliance or interfere with or prevent the contractor's efforts to correct the deficiency. For example, earthwork operations may be suspended until the contractor controls sediment or stabilizes soil as specified. Other work performed by a crew might be suspended if that crew is needed to install best management practices measures.

- Meet with personnel from regulatory agencies, such as the Environmental Protection Agency, RWQCB, or SWRCB to discuss stormwater issues and measures.
- Verify that the contractor submits an annual certification of compliance, Form DOT CEM-2070, “SWPPP/WPCP Annual Certification of Compliance,” as specified. Sign, date, and file this certification in the project files.
- At 90 percent construction completion, conduct a field review with the maintenance superintendent or supervisor, or the district Maintenance stormwater coordinator, and complete Form MTCE-0023, “Construction to Maintenance 90% BMP Completion Walkthrough.”

Before accepting the contract, the resident engineer must do the following:

- Determine that all slopes are stabilized, as required by the contract.
- Require the contractor to remove temporary BMP measures that are not a part of permanent erosion control unless the BMP measures are part of permanent measures or requested to be left in place by the district Maintenance Unit.
- Conduct a final walk-through of the project area with the maintenance superintendent or region manager. During the final inspection, update Form MTCE-0023 to reflect changes and corrective actions implemented since the 90 percent construction completion field review with maintenance.

### *7-104B (3) Stormwater Inspector Responsibilities*

The resident engineer may assign an assistant resident engineer as the stormwater inspector. The stormwater inspector will assist the resident engineer in carrying out the work described above, as determined by the resident engineer. Typically, the stormwater inspector will do the following:

- Review and become familiar with the *Standard Specifications* and project special provisions pertaining to water pollution control.
- Review and become familiar with the authorized WPCP or SWPPP.
- Conduct site inspections. Verify that BMP measures are properly installed and meet the requirements in the Caltrans *Stormwater Quality Handbooks* and the contract specifications. Look for areas that may require BMP measures that are not deployed or not addressed in the WPCP or SWPPP. Observe and identify any discharges, illicit connections, and illegal discharges. Take photographs of all areas.
- Prepare daily reports on stormwater pollution prevention. Record all stormwater management activities, or inactivity, and conversations with the contractor regarding stormwater pollution prevention.
- Document site visits from regulatory agencies, such as the SWRCB, the RWQCB, or the EPA, and any inspections the agencies perform.
- Monitor the weather reports of the National Weather Service for rainfall predictions. If a rain event greater than 0.5 inch for each event or storm event

greater than 0.1 inch in 24 hours is predicted, make sure the contractor prepares a rain event action plan for risk levels 2 and 3 projects and deploys appropriate measures as identified in either the rain event action plan, the SWPPP, or the WPCP.

- Inform the resident engineer immediately of any problems with BMP measures during the implementation of the WPCP or SWPPP and any observed discharges.
- Identify changes in construction that may require amendments to the WPCP or SWPPP, and notify the resident engineer of these findings.
- For sites covered by permits, verify site access and the safety of representatives of regulatory agencies and local agencies when they are on site for any reason.

#### *7-104B (4) Contractor Inspections*

The special provisions for water pollution control require the contractor to inspect the construction site at least once a week for the proper implementation, performance, and maintenance of BMP measures identified in the WPCP or SWPPP. The contractor must follow the site inspection procedure specified in the SWPPP or WPCP, and the *Construction Site Monitoring Program Guidance Manual*. The water pollution control manager, or trained personnel under the supervision of the water pollution control manager, must conduct the site inspections using Form DOT CEM-2030, “Stormwater Site Inspection Report.”

The contractor must notify the resident engineer whenever the SWPPP, WPCP, or BMP measures may not reduce or have not reduced the discharge of sediment or other pollutants into a waterway or outside of the project limits. The contractor must follow the verbal notification with a written report using Form DOT CEM-2061, “Notice of Discharge Report,” or Form DOT CEM-2061T “Notice of Discharge Report—Lake Tahoe Hydrologic Unit Stormwater Sample Field Test Report/Receiving Water Monitoring Report” if applicable. The contractor’s report must conform to the provisions of Section 900.3, “Discharge Reporting,” of the SWPPP or those of Section 50.2, “Discharge Reporting,” of the WPCP.

If the situation constitutes noncompliance with the permit, the resident engineer must conduct a verification inspection, and if a noncompliance condition exists, report it to the district Construction stormwater coordinator and district NPDES stormwater coordinator. Unless otherwise indicated in the district or regional work plans, the district NPDES stormwater coordinator will report it to the appropriate RWQCB. The resident engineer must require the contractor to amend the WPCP or the SWPPP, if necessary, and to employ additional BMP measures.

#### *7-104B (5) Amendment Review and Processing*

During construction, conditions may occur that affect the ability of the contractor to implement the WPCP or SWPPP as initially authorized or the ability of the authorized WPCP or SWPPP to meet the objectives for water pollution control. A change in construction operations or site conditions may result in the discharge of

significant quantities of pollutants to surface waters, municipal storm drain systems, or outside of the project limits. The project biologist must be notified of such releases, asked to determine the effect on protected species and their habitats, and asked to determine the need for required notices to regulatory agencies. These changes can include construction staging or schedule changes, staging area modifications, unanticipated offsite drainage effects, and failures of BMPs. The contractor must amend the WPCP or SWPPP if either plan's effectiveness is diminished by any such changed condition.

Upon the resident engineer's authorization, the contractor must incorporate all WPCP or SWPPP amendments into the onsite documents. The contractor must prepare WPCP or SWPPP amendments in the format prescribed in the *Stormwater Quality Handbooks*.

The resident engineer must review the contractor's proposed revised WPCP or SWPPP amendments for completeness and conformance with the revised conditions, and give written authorization to the contractor if the amendments are acceptable. The authorized revised SWPPP must be uploaded into SMARTS.

#### *7-104B (6) Project Files*

The resident engineer must keep copies of all documents related to stormwater pollution prevention in Category 20, "Water Pollution Control Plan or Stormwater Pollution Prevention Plan," of the project files. Retain the following documents:

- SWPPP or WPCP and all amendments
- Daily reports and photographs related to the prevention of stormwater pollution
- The weekly contractor-prepared Form DOT CEM-2030, "Stormwater Site Inspection Report"
- Forms DOT CEM-2061, "Notice of Discharge Report"
- All correspondence related to stormwater pollution prevention, including notices of noncompliance
- Inspection reports from the district construction stormwater coordinators
- Inspection reports from the resident engineer and assistant resident engineer
- Copies of the certifications required by the specifications
- The printout from SMARTS after filing the Notice of Termination

#### *7-104B (7) Contractor Files*

The specifications require the contractor to keep at the project site copies of the SWPPP or WPCP and all authorized amendments.

#### 7-104C Noise Control

Construction and traffic noise may be a sensitive issue in neighborhoods and communities next to state highways. Funding has been provided for highway noise reduction through the construction of sound walls and other noise attenuation.

Special restrictions may be employed on night work in sensitive areas, such as residential neighborhoods, schools, and hospitals near the project site. Section 14-8, “Noise and Vibration,” of the *Standard Specifications*, provides the contractor’s requirements for noise control.

## **7-105 Permits, Licenses, Agreements, and Certifications**

This section covers permits, licenses, agreements, and certifications (PLACs) that may be issued by regulatory agencies or may be part of the contract supplemental project information as described in the special provisions. For assistance regarding PLAC requirements, such as contractor submittals on reporting requirements, protocols, or information training, contact the environmental construction liaison or project biologist.

### 7-105A Special Use Permits and Other Federal Permits

The Forest Service, Bureau of Land Management, and other federal agencies issue permits to Caltrans to construct and operate highway facilities across lands under their jurisdictions. There can be special use permits, temporary use permits, U.S. Department of Transportation easements, federal land transfers, and, in the case of already existing roadways, there may be prescriptive rights-of-way. In addition, an Archaeological Resources Protection Act permit may be required.

### 7-105B California Fish and Game Code Sections 1602 and 5650

Section 1602 of the California Fish and Game Code requires that public agencies such as Caltrans reach an agreement with the California Department of Fish and Wildlife (CDFW) if the proposed work affects a waterway. The agreement required by this section of the code is known as the “Lake or Streambed Alteration Agreement,” also known as the “1602 Agreement.” The 1602 Agreement specifically prohibits polluting the waters of the state and may specifically prohibit certain activities at certain times of the year, such as working in the river during spawning season. It may also require the contractor to undertake specific measures, such as installing fish ladders. Violations of the agreement are punishable by fine, imprisonment, or both.

Section 5650 of the Fish and Game Code prohibits placing specified materials in the waters of the state. Violations are punishable by fine, imprisonment, or both.

Examples of violations include the following:

- Causing dirt and sediment to enter the waters of the state
- Using creosoted timbers in the waters of the state
- Placing petroleum products, such as asphalt or diesel, into, or where they can get into, the waters of the state

Placing asphalt concrete grindings, chunks, and pieces in areas where they can pass into the waters of the state is also a violation of Section 5650 of the Fish and Game Code. A memorandum of understanding exists between CDFW and Caltrans regarding the placement of asphalt concrete pavement grindings as shoulder

backing and the placement of asphalt concrete pieces and chunks in embankments. For a discussion of reusing asphalt concrete as fill material and shoulder backing and a summary of the memorandum of understanding, refer to Index 110.11, "Conservation of Materials and Energy," of the *Highway Design Manual*. If a question exists as to whether asphalt concrete grindings or chunks may get into the waters of the state, consult with the environmental construction liaison or project biologist.

#### 7-105C List of Potential Permits, Licenses, Agreements, and Certifications

Table 7-1.1., "State and Local Agency Permits, Licenses, Agreements, and Certifications," lists when permits or approval of contract plans may be required from state or local governmental agencies. The first column lists the activity or a resource affected by construction activity. The second column lists the agency or agencies that may have jurisdiction in the area shown in the first column. The third column indicates the type of permit or plan approval that may be required by the agency or agencies.

Table 7-1.2., "Federal Agency Permits, Licenses, Agreements, and Certifications," lists federal environmental statutes and regulations. The first column lists resources or activities. The second column shows the federal agency having jurisdiction in the area. The third column lists the statute or regulation that applies to the resource or activity.

Most required permits and plan approvals should be obtained during the project's design phase. However, the following tables may be used as a reminder of the types of permits and plan approvals that may be required when making changes to the original plans. Any changes to plan approvals or PLACs must be coordinated with the environmental construction liaison or Environmental Unit.

Table 7-1.1. State and Local Agency Permits, Licenses, Agreements, and Certifications (1 of 3)

| <b>Resource or Activity</b>  | <b>Agency</b>   | <b>Permit or Approval</b>  |
|--|---|--|
| Commercial, industrial, and residential development  | Local agency (county or city)   | Land use, general plans, specific plan, conditional use, or subdivision                                    |
| Conversion of timberland to nonforest uses through timber operations and immediate timberland production zone rezoning | California Department of Forestry and Fire Protection; California Department of Fish and Wildlife | Timberland Conversion Permit; California Endangered Species Act (consultation)                             |
| Power transmission lines, pipelines, and railroad crossings  | California Public Utilities Commission  | Review of plans and approval   |
| Solid waste disposal   | Department of Resources Recycling and Recovery (CalRecycle)                                       | Disposal requirements  |
| Sewage disposal  | County health department  | Disposal requirements  |
| Waste discharge  | State Water Resources Control Board; regional water quality control boards                        | Waste discharge requirements   |
| Re-use of soil containing regulated concentrations of aerially deposited lead  | Department of Toxic Substances Control (DTSC)   | Soil Management Agreement for Aerially Deposited Lead-Contaminated Soils (ADL Agreement)                   |
| Storing, treating, or disposing of hazardous waste   | Department of Toxic Substances Control  | Caltrans-generated hazardous waste must be sent to a DTSC permitted hazardous waste facility in California |
| Right-of-way across state parkland   | California Department of Parks and Recreation   | Right-of-way permit, license, easement, joint agreement, or lease  |
| Encroachment on or across a local street or highway  | Local agency (county or city)   | Encroachment permit  |
| Encroachment on 100-year floodplain, intermittent streams, and desert washes   | California Department of Fish and Wildlife  | Lake and Streambed Alteration Agreement (1602 Agreement); California Endangered Species Act (consultation) |

Table 7-1.1. State and Local Agency Permits, Licenses, Agreements, and Certifications (2 of 3)

| <b>Resource or Activity</b>                   | <b>Agency</b>  | <b>Permit or Approval</b>  |
|---|--|--|
| Encroachment on or across cove, bay, or inlet | California Department of Parks and Recreation, Division of Boating and Waterways   | Review of plans  |
| Air quality                                   | Air Resources Board or local air pollution control district  | Authority to construct, and permit to operate for activities emitting stationary source pollutants into the atmosphere   |
| Fish and wildlife habitat                     | California Department of Fish and Wildlife   | Lake and Streambed Alteration Agreement for activities in lakes, streams, and channels and crossings; California Endangered Species Act  |
| Coastal zone                                  | California Coastal Commission; local government local coastal program  | Coastal Development Permit; California Coastal Act   |
| Water   | California State Lands Commission; State Water Resources Control Board, Division of Drinking Water; regional water quality control boards; Department of Public Health, the county environmental management department; or local health office | Land-use lease, such as for encroachments, crossings on tidelands, or submerged lands; National Pollutant Discharge Elimination System Permit for stormwater discharges to surface water; waste discharge requirements for nonstorm discharges to surface water or groundwater to the waters of the state; Permit to Operate a Public Water System |
| Dredging                                      | California Department of Fish and Wildlife; State Lands Commission   | Standard or special suction dredging permit; dredging permit   |

Table 7-1.1. State and Local Agency Permits, Licenses, Agreements, and Certifications (3 of 3)

| <b>Resource or Activity</b>                                       | <b>Agency</b>  | <b>Permit or Approval</b>                          |
|---|--|--|
| Surface, such as material borrow sites                            | Local agency (county or city)  | Surface Mining and Reclamation Act (SMARA) permit  |
| Burning   | Local air pollution control district; California Department of Forestry and Fire Protection; local fire control agency | Burn permit  |
| Grading   | Local agency (county or city)  | Grading permit                                     |
| Entering private property to gather information for temporary use | Caltrans district Right of Way Unit; Property owner right-of-entry approval  | Property owner approval for temporary encroachment |
| Entering surface waters to gather information or for construction | Regional water quality control board   | Water quality certification or waiver              |
| All activities involving dams or reservoirs                       | California Department of Water Resources, Division of Safety of Dams   | Approval of plans                                  |

Table 7-1.2. Federal Agency Permits, Licenses, Agreements, and Certifications (1 of 2)

| <b>Resource or Activity</b> | <b>Agency</b>  | <b>Federal Statute, Regulation, or Executive Order</b>  |
|-----------------------------|--|---|
| Water                       | Army Corps of Engineers; EPA; Bureau of Reclamation; U.S. Fish and Wildlife Service; National Oceanic and Atmospheric Administration                                     | Clean Water Act (Section 404) Regulations concerning the National Pollutant Discharge Elimination System (40 CFR); Endangered Species Act |
| Air                         | EPA  | Clean Air Act, Title 42, Sections 7401– 7414  |
| Fish and Wildlife Habitat   | Fish and Wildlife Service; Forest Service; National Park Service; National Oceanic and Atmospheric Administration  | Endangered Species Act (Section 7)<br>Biological Opinion for protection of species and habitats   |
| Navigable Waters            | Army Corps of Engineers; Coast Guard   | Rivers and Harbor Act   |
| Federal Lands               | Forest Service; Bureau of Land Management; National Park Service;<br>Army Corps of Engineers; Fish and Wildlife Service; National Oceanic and Atmospheric Administration | Clean Water Act (Section 404); Endangered Species Act (Section 7)   |
| Historic Properties         | Advisory Council on Historic Preservation; State Office of Historic Preservation   | National Historic Preservation Act (Section 106)  |
| Paleontological Resources   | Bureau of Indian Affairs; Bureau of Land Management, Forest Service; National Park Service; Army Corps of Engineers  | Antiquities Act of 1906; Paleontological Resources Preservation Act of 2009; Federal Land Policy and Management Act of 1976               |
| Coastal Zone                | Army Corps of Engineers; Fish and Wildlife Service; National Oceanic and Atmospheric Administration  | Biological Opinion for protection of species and habitats; Endangered Species Act; Coastal Zone Management Act of 1972                    |

Table 7-1.2. Federal Agency Permits, Licenses, Agreements, and Certifications (2 of 2)

| <b>Resource or Activity</b> | <b>Agency</b>  | <b>Federal Statute, Regulation, or Executive Order</b>                       |
|-----------------------------|--|--|
| Wild and Scenic Rivers      | National Park Service; Forest Service, Bureau of Land Management   | Code of Federal Regulations, Title 36, Section 297 (36 CFR 297); 43 CFR 8350 |
| Wetlands                    | Army Corps of Engineers; EPA   | Executive Order 11990 (Protection of Wetlands)                               |
| Floodplains                 | Federal Emergency Management Agency  | Executive Order 11988 (Floodplains Management)                               |
| Dredging                    | Army Corps of Engineers; Fish and Wildlife Service; National Oceanic and Atmospheric Administration; Coast Guard | Clean Water Act (Section 404); Executive Order 11990; Endangered Species Act |
| Airport Airspace            | Federal Aviation Administration  | Federal Aviation Regulations, Part 77  |
| Farmland                    | Natural Resources Conservation Service   | Farmland Protection Policy Act   |

## **7-106 Hazardous Materials**

Many hazardous materials are used in the construction of highway facilities. Employees must take appropriate precautions to minimize their exposure and use protective clothing and equipment. Contractors must submit safety data sheets (SDS) and obtain permission from the resident engineer before bringing any hazardous material onto the job site. For instructions, guidelines, and requirements for handling hazardous materials to assure employee safety, refer to Chapter 16, "Hazardous Materials Communication Program," of the *Caltrans Safety Manual* and Chapter 2, "Safety and Traffic," of this manual. For pesticide use guidelines, refer to Section 4-20, "Landscape," of this manual.

Key sources of safety data information are available at the website listed in this section. The information this website provides could be critical in the event the contractor fails to provide an SDS or if additional information or clarification is required.

In using this information, keep in mind that the address may change over time and it may be necessary to search the more general website listing or call directly for assistance.

For SDS information, use the following free online database provided by MSDS Catalog Service LLC:

<http://msdsdigital.com/msds-database>

SDS information may also be obtained by entering the product name followed by SDS in a web search engine.

## **7-107 Hazardous Waste and Contamination**

Hazardous waste may be generated as a result of construction activities. Examples of hazardous waste generating activities include the removal of stripes and pavement markings containing high levels of lead, removing lead-based paint from a bridge or other structure, and excavating soil containing aerially deposited lead. Removing hazardous waste and contamination that has been released into the environment may be part of the project activities. For example, the work may include excavating a defined area of contaminated soil at an old gas station location.

Special permits may be required when generating hazardous waste during construction. For example, demolishing a bridge, whether new, old, or temporary, requires an asbestos survey and a permit from the local air quality management district. For guidance regarding special permit and variance requirements and procedures, contact the environmental construction liaison or district Environmental Unit.

The district Construction division must have a designated district hazardous waste coordinator who will carry out necessary administrative functions for hazardous waste and assist the resident engineer. The coordinator will assist the resident engineer by working with other functional areas in the district and headquarters to do the following:

- Identify hazardous waste training that might be needed
- Make sure of proper notifications if unidentified waste is found during construction
- Provide field personnel with procedures and other information so that the personnel may safely deal with anticipated and unanticipated hazardous waste and contamination

The construction contractor is responsible for making sure that hazardous waste and contamination is managed in compliance with all applicable laws and regulatory requirements. For information about the applicable laws and regulations, refer to Chapter 10, “Hazardous Materials, Hazardous Waste, and Contamination,” of the *Standard Environmental Reference*, Vol. 1. Additional information regarding hazardous waste management is available at the California Department of Toxic Substances Control (DTSC) website:

<https://dtsc.ca.gov/>

For information regarding hazardous waste transportation, refer to the DTSC:

<https://dtsc.ca.gov/modes-of-hazardous-waste-transportation/>

Section 14-11, “Hazardous Waste and Contamination,” of the *Standard Specifications* defines the contractor’s responsibilities, including requirements for proper storage and handling. Guidance for resident engineers managing hazardous waste during construction can be found on the Environmental Analysis intranet page, Hazardous Waste Management During Construction.

Guidance for implementing specific standard special provisions is available on the Environmental Analysis standard special provisions intranet page.

#### 7-107A Contractor-Generated Hazardous Waste Versus Caltrans-Generated Hazardous Waste

Section 14-11, “Hazardous Waste and Contamination,” of the *Standard Specifications* differentiates between contractor-generated waste and Caltrans-generated waste.

Contractor-generated hazardous wastes are hazardous materials that the contractor brings to the job site that have no further use and must be disposed of. Examples include extra or spent chemicals and waste generated as a result of contractor spills and leaks. Caltrans does not pay for disposal of contractor-generated hazardous wastes. If the contractor-generated hazardous waste is characterized as a federal waste, often referred to as a Resource Conservation and Recovery Act waste, the contractor must obtain an EPA Identification Number from DTSC and sign manifests for disposal. If the contractor-generated hazardous waste is not characterized as a federal waste, it will be characterized as a California hazardous waste—also known as a non-Resource and Recovery Act waste—and the contractor must obtain a state identification from DTSC and sign manifests for disposal.

Caltrans-generated hazardous wastes result from removal of materials that exist within the project limits such as stripes on the highway and soil containing aerially

deposited lead. The *Standard Specifications* requires that Caltrans-generated hazardous waste is labeled consistently, and the resident engineer obtains the EPA temporary generator identification number and signs the hazardous waste manifests. Caltrans-generated hazardous waste is required to be disposed of within California at a facility that holds a DTSC permit to accept the waste. For more information regarding in-state disposal, refer to Chapter 18, “Environmental Contamination” of the *Project Development Procedures Manual*.

At the preconstruction meeting, have the contractor identify the permitted site for disposal of project hazardous waste. The resident engineer should follow up and confirm the disposal site’s ability to dispose of the waste stream.

During the course of work, the resident engineer must do the following:

1. Retain a copy of the manifest. Send a copy to: DTSC Generator Manifests, P.O. Box 400, Sacramento, CA, 95812-0400 within 30 days.
2. Review the manifest for accuracy before signing it as the generator. If you identify any errors at the time, line them out, correct them, and initial the correction. If you identify an error after the waste is transported, prepare a manifest correction letter. Seek assistance from the district hazardous waste coordinator if needed. The mailing address on the manifest should be the district office and the manifest should also show the project location address.
3. Check that the load is transported by a hauler with a valid hazardous waste hauler certification.

#### 7-107B Aerially Deposited Lead

Aerially deposited lead (ADL) from leaded gasoline emissions still exists in unpaved areas along California highways, and lead is ubiquitous in the environment. Sample and analysis of soil is normally performed during project development to determine whether the lead is present at concentrations requiring special management. Sample results are analyzed statistically. The sampling and analysis methods were developed and are required by the EPA and DTSC. For safety purposes, do not allow Caltrans staff and contractor staff that have not completed a lead safety training program provided by the contractor to work in areas where soil is being disturbed.

#### *7-107B (1) Unregulated Material*

Soil containing average lead concentrations equal to or less than 80 milligrams per kilogram (mg/kg) total lead and less than 5 milligrams per liter (mg/L) soluble lead is unregulated. If unregulated material is identified in the contract special provisions, a lead compliance plan is required for safety precautions, but special disposal of the soil is not required. The requirements for the lead compliance plan are found in Section 7-1.02K(6)(j)(ii), “Lead Compliance Plan,” of the *Standard Specifications* and project-specific information may be found in Section 7-1.02K (6)(j)(iii), “Unregulated Earth Material Containing Lead,” of the standard special provisions. The requirements specify whether soil must be retained on the job site or may be

disposed of by the contractor. When Section 7-1.02K(6)(j)(iii) allows disposal, unregulated soil can be disposed on residential or commercial property without DTSC regulatory restrictions. Contractors are always responsible to make sure that there are no RWQCB restrictions associated with their chosen disposal location. If soil will be disposed of, verify that Form DOT CEM-1906, "Agreement Between a Contractor Working on State Facilities and a Real Property Owner for Disposing Construction-Related Material Suitable for Use on Residential Zoned Property" is properly completed and includes a copy of Section 7-1.02K(6)(j)(iii) of the special provisions that includes lead concentration data for the unregulated soil.

The special provisions may contain handling requirements, for example, to excavate by total depth, not in lifts. These requirements are included and must be followed because mismanagement of the soil could result in unintended misclassification of the soil and unnecessary hazardous waste generation. For more information about these special provisions, refer to the guidance on the Environmental Analysis SSPs intranet page.

#### *7-107B (2) Regulated Material*

Soil with average lead concentrations greater than 80 mg/kg total lead or equal to or greater than 5 mg/L soluble lead is ADL-contaminated soil and regulated by the DTSC under the 2016 Soil Management Agreement for Aerially Deposited Lead-Contaminated Soils between Caltrans and the DTSC (ADL Agreement). If soil is regulated material and will be disturbed by project activities, the contract special provisions will require worker protection and soil management and disposal at a California Class I, II, or III disposal facility, or re-use under the requirements of the ADL Agreement. Project specific information on managing regulated material may be found in Section 14-11.05B, "Liner," Section 14-11.08, "Regulated Material Containing Aerially Deposited Lead," and Section 14-11.09, "Minimal Disturbance of Regulated Material Containing Aerially Deposited Lead," of the *Standard Special Provisions*.

The district ADL coordinators act as the liaison between Caltrans and the DTSC. The list of district ADL coordinators is available at:

<https://dot.ca.gov/programs/construction/environmentall>

When *Standard Special Provisions* Section 14-11.08 is included in the contract, the resident engineer must verify, before contract award if possible, that the district ADL coordinator has submitted the project notification to DTSC and sent copies of it to:

- The applicable RWQCBs
- The local air pollution control districts or air quality management districts
- The applicable Certified Uniform Program Agencies

If the required written notifications and submittals were not sent, the resident engineer must work with the district ADL coordinator to make sure the required written notifications are sent at least five days before excavation of regulated material begins.

The resident engineer must provide the lead compliance plan and the excavation and transportation plan to the district ADL coordinator as soon as they are authorized so that they can also be sent to the DTSC.

There are several types of ADL-contaminated soil based on lead concentration. The types of regulated material on a specific project are identified in Section 14-11.08, "Regulated Material Containing Aerially Deposited Lead," and shown on the plans. The soil types are determined by Caltrans and soil cannot be reclassified by the contractor.

Type Com: Type Com can be reused without restriction on the job site as long as it is not placed in an area where public use is encouraged, such as a rest area. If Type Com is disposed of, it can only be placed on a commercial or industrial property or taken to a California Class III or Class II landfill. If Type Com soil will be disposed of, verify that Form CEM-1904, "Agreement Between a Contractor Working on State Facilities and a Real Property Owner for Disposing Construction-Related Material on Commercial Zoned Property Owner's Property" is properly completed and includes a copy of the Information Handout that includes lead concentration data for the Type Com soil.

Type R-1: Type R-1 is reused on the job site in areas that are at least 5 feet above the maximum historical elevation of the water table. It cannot be placed in areas where surface water collects or areas designed for water infiltration. It must be covered with at least 1 foot of Type Com or unregulated material with a pH greater than 5 or pavement. The contract plans will specify where the Type R-1 is to be placed and the specific cover thickness allowed. The placement location cannot be changed without concurrence with the district ADL coordinator and notifying the DTSC.

Type R-2: Type R-2 is reused on the job site in areas that are at least 5 feet above the maximum historical elevation of the water table. It cannot be placed in areas where surface water collects or areas designed for water infiltration. It must be covered with pavement. The contract plans will specify where the Type R-2 is to be placed. The placement location cannot be changed without concurrence with the district ADL coordinator and notifying the DTSC.

Type Z-0: Type Z-0 must be disposed of at an appropriately permitted California Class III or Class II disposal facility.

Type Z-2: Type Z-2 is a California hazardous waste and must be disposed of in a California Class I disposal facility.

Type Z-3: Type Z-3 is a federal hazardous waste also known as a Resource and Recovery Act waste and it must be disposed of in a California Class I disposal facility. The resident engineer must be aware of the requirements of the ADL Agreement, including excavating, placing, stockpiling, transporting, managing, and burying soil containing ADL. Coordinating and communicating with the district ADL coordinator before, during, and after construction is very important. The resident engineer must also be familiar with the recording and reporting requirements of the ADL Agreement. Confer with the district ADL coordinator and refer to pages 18-21 of

the ADL Agreement if there are questions about soil management requirements that are not addressed in Section 14-11.08 of the contract.

Special consideration must be given to Type R-1 and R-2 materials because they are hazardous waste that Caltrans is allowed to reuse on the project site with careful containment and tracking. The contractor must submit Form DOT CEM-1903, "Burial Location of Soil Containing Aerially Deposited Lead (Topographic Survey)," and electronic geospatial vector data shapefiles of the top and bottom of the burial location to the resident engineer within 5 business days of completing placement of soil containing ADL at a burial location. The resident engineer must verify the information submitted on the form and notify the contractor within 5 business days if the information must be corrected. The contractor must then submit the corrected form and electronic geospatial vector data shapefile to the resident engineer and [ADL@dot.ca.gov](mailto:ADL@dot.ca.gov). The resident engineer must forward Form DOT CEM-1903 and the geospatial vector data shapefiles to the district ADL coordinator.

As Type R-1 and R-2 project changes require a written updated notification to DTSC, all field changes to R-1 or R-2 soil must be discussed with the district ADL coordinator. Do not proceed with R-1 or R-2 project changes without updated correspondence letters to DTSC or written notification from the district ADL coordinator indicating concurrence with the change. All field changes from the original design, including minor changes in placement locations, quantities, or protection measures, must be documented by the resident engineer on Form DOT CEM-4501, "Resident Engineer's Daily Report or Assistant Resident Engineer's Daily Report" within 5 days of the change.

The resident engineer is responsible for showing on the as-built plans where Type R-1 and R-2 were buried. Information submitted on Form DOT CEM-1903 should be used as the basis for the plotting locations.

The resident engineer must coordinate with and provide the following to the district ADL coordinator for all projects with regulated material:

- Lead compliance plan, within 10 days of accepting the plan
- Excavation and transportation plan, within 10 days of accepting the plan
- The start of construction notification at least 5 days before construction
  - List of contractor and subcontractors
  - Anticipated start and end construction dates
  - Resident engineer contact information
  - Project-defined corridor if soil will be moved from one Caltrans project to another
  - Location and property owner information if the soil will be stockpiled off the job site or disposed of
- The completion report within 180 days of contract acceptance
  - Actual start and end construction dates

- List of all EPA and State Identification Numbers, including Temporary Identification Numbers, issued by DTSC for the project. The list must include the identification numbers obtained by the contractor for contractor-generated hazardous waste.
- For Type R-1 or R-2 materials that were buried, provide the following to the district ADL coordinator:
  - Survey data at each burial location as signed by the contractor’s surveyor
  - Volume of soil at each burial location
  - The historical maximum elevation of the water table underlying each burial location
  - Copies of all bills of lading used for transporting ADL soil. These must be kept on file with the project as-built plans
  - Laboratory data if soil is tested for lead during construction
- For regulated material that was disposed of outside the right of way, such as Type Z-0, Type Z-2, Type Z-3 and possibly Type Com if disposal of this material was allowed in Section 14-11.08, provide the following to the district ADL coordinator. Refer to Section 4.12.3 on page 26 of the ADL Agreement:
  - Landfill names or private property location and its contact information
  - Copies of any and all bills of lading and hazardous waste manifests used to transport the soil
  - Zoning for the final destination property if not a landfill
  - Volume of soil moved to a landfill or final destination property
  - If not a landfill, whether soil was stockpiled or used as fill
  - Laboratory data if soil is tested for lead during construction

To comply with the record retention requirements of the ADL Agreement, the resident engineer must retain ADL-related records in Category 19, “Hazardous Waste and Hazardous Materials” of the project records as follows:

- All ADL-related correspondence, reports, data, and records
- All ADL-related documents included with the resident engineer pending file

*7-107B (3) Minimal Disturbance of Regulated Material Containing Aerially Deposited Lead*

The EPA allows certain discrete areas of generally dispersed contamination to be considered an individual waste management unit, equivalent to a landfill. These discrete areas are defined as areas of contamination (AOC). An AOC is equated to a single unit; therefore, movement, consolidation, or in-place treatment of hazardous waste within the AOC does not create a new point of hazardous waste generation. For an AOC, contamination must be contiguous but can have various concentrations.

The DTSC allows Caltrans to apply the AOC approach to projects that will only cause minimal disturbances of soil containing hazardous waste concentrations of ADL. Minimal or minor disturbances include installing guardrail, fencing, sign posts, traffic operation systems, highway planting and irrigation; minor clearing and grubbing; shoulder backing, pavement, and trenches for electrical systems. All soil disturbed must remain in the immediate area of disturbance and not be transported elsewhere. Health and safety precautions and dust control for hazardous waste must be implemented.

When the AOC approach can be applied to a minimal disturbance, the contract specifications under Section 14-11.09, "Minimal Disturbance of Regulated Material Containing Aerially Deposited Lead" of the *Standard Specifications* will require a lead compliance plan for worker safety and dust control measures and require that disturbed soil be placed back in the immediate area that it came from.

### 7-107C Naturally Occurring Asbestos

If naturally occurring asbestos (NOA) exists within the project area, the contract will include specifications that contain safety and management requirements. The specifications require that the contractor must, at all times, comply with the dust mitigation requirements of the local air pollution control district or the county air quality management district and the California Occupational Safety and Health Administration code of safe work practices for working with asbestos: California Code of Regulations, Title 8, Section 1529, "Asbestos" (8 CCR 1529).

The California Air Resources Board (ARB) restricts the use of material containing detectable NOA, equal to or greater than 0.25 percent, and the DTSC regulates material containing hazardous levels of NOA defined as equal to or greater than 1.0 percent asbestos. However, the DTSC does not require that NOA be managed as a hazardous waste for disposal purposes, and, therefore, disposal at a Class I facility is not required. Because of this determination, a generator identification number is not necessary for disposing of excess NOA material, nor are waste manifests or DTSC-registered hazardous waste transporters required. However, surplus material containing 1.0 percent or greater of NOA must be disposed of by the contractor in a Class II or Class III landfill facility permitted to receive it and may not be relinquished for reuse on a site that is not a permitted disposal facility.

Ultramafic rock that has been tested and found to contain less than 0.25 percent asbestos and all NOA material containing less than 0.25 percent asbestos may be used in a surfacing application according to 17 CCR 93106, "Asbestos Airborne Toxic Control Measure for Surfacing Applications." "Restricted Material" is defined as ultramafic rock and serpentine rock, any material extracted from a region defined on geologic maps as an ultramafic rock unit, and any material that has been tested and found to have an asbestos content of 0.25 percent or greater. Surplus material with an NOA content greater than or equal to 0.25 percent, but less than 1.0 percent NOA must be disposed of in a licensed landfill facility if it is not relinquished to the contractor. If material containing less than 1.0 percent NOA is relinquished to the contractor for reuse in nonsurfacing applications, the contractor must provide the following warning to the entity receiving the NOA material:

## WARNING!

This material may contain asbestos.

It is unlawful to use this material for surfacing or any application in which it would remain exposed and subject to possible disturbances.

Extreme care should be taken when handling this material to minimize the generation of dust.

The resident engineer must obtain written documentation from the contractor stating that the relinquished NOA material will not be reused in a surfacing application and what the final disposition of the restricted material is.

### 7-107D Caltrans-Generated Contaminated Soil

If contaminated soil exists within the project area, the contract will include specifications that contain safety and management requirements. Depending on the depth to groundwater within the project area and the depth of construction activities, management of contaminated water may also be included. These specifications will vary depending upon the site-specific conditions and, therefore, must be reviewed carefully by the resident engineer to make sure that they are properly implemented.

### 7-107E Removing Yellow Traffic Stripe and Pavement Marking with Hazardous Waste Residue

Refer to Section 14-11.12, "Removal of Yellow Traffic Stripe and Pavement Marking with Hazardous Waste Residue," of the *Standard Specifications* and use the following procedures when assessing, removing, and disposing of yellow traffic stripe and pavement marking materials on all projects.

The resident engineer must review the construction contract to determine whether yellow traffic stripe and pavement marking material must be removed. If so, the resident engineer must also determine whether special handling as a hazardous waste is specified.

If yellow traffic stripe and pavement markings are to be removed and the removal has not been addressed in the contract, the resident engineer must consult with the district hazardous waste coordinator to determine whether a change order is needed.

The resident engineer must make sure of the following:

- **Training:** The contractor must provide a safety training program that meets the requirements of 8 CCR 1532.1, "Lead." Before performing any yellow traffic stripe and pavement marking removal, personnel, including Caltrans employees who have had no previous lead training, must complete the safety training program.
- **Lead compliance plan:** Work practices and worker health and safety must conform to 8 CCR 1532.1, "Lead." The contractor must submit the written compliance programs required in Subsection (e)(2), "Compliance Program," of 8

CCR 1532.1, to the resident engineer before starting to remove yellow traffic stripes and pavement markings and at such times when a program revision is required. An industrial hygienist certified by the American Board of Industrial Hygiene must prepare the compliance program. A competent person capable of taking corrective action must monitor the program. Copies of all inspection reports made in accordance with 8 CCR 1532.1 must be given to the resident engineer.

- **Work plan:** The contractor must submit a work plan that documents the removal equipment that will be used, removal and waste collection procedures, storage containers, storage location and security, sampling procedures, sampling personnel qualifications, certified laboratory that will run the analyses, hazardous waste hauler certifications, and receiving disposal site and requirements. Removal work may not start until the resident engineer has reviewed and accepted the work plan.
- **Storage of residue:** The contractor must store the residue from traffic stripe and pavement marking removal as follows:
  1. While waiting for any test results required by the disposal facility, store the collected residue as hazardous waste in properly labeled metal containers approved by the U.S. Department of Transportation for hazardous waste transport.
  2. Cover and handle the containers in such a manner that no spillage will occur.
  3. Enclose the stored containers with temporary chain link fencing or a lockable shipping container at a location within the project limits approved by the resident engineer.
  4. Begin disposing of the contained residue no more than 90 days after accumulating 220 pounds of residue.
- **Testing and disposal:** Before disposal, the contractor is required to test the residue collected in the containers for proper waste classification. The level of lead waste contained in the removed material will be diluted by pavement debris that has also been removed. Depending on the test results, disposal of the stored material is as follows:
  1. Dispose of the stored residue as hazardous waste when its lead content is detected to be at levels greater than 1,000 mg/kg total lead or greater than 5 mg/l soluble lead. Keep records in accordance with current requirements for hazardous waste handling and disposal, and file them in the project files. The contractor must dispose of all hazardous waste residues resulting from yellow traffic stripe and pavement marking removal at an approved DTSC-permitted Class I disposal facility in accordance with the requirements of the disposal facility operator. A transporter currently registered with the DTSC using correct manifesting procedures must haul the yellow traffic stripe and pavement marking residue.

The contractor must make all arrangements with the disposal facility operator and perform any testing of the yellow traffic stripe and pavement marking debris required by the operator. The resident engineer must obtain the EPA or state Temporary Identification Number and sign all manifests as the generator. The resident engineer must also pay the manifest fees that may be billed several months after project completion.

2. Unless the lead removal work was already contemplated in the construction contract, pay as change order work all work performed for testing, additional removal costs, retesting, and additional disposal.
3. If the analytical test results demonstrate that the waste is actually nonhazardous, a change order must be prepared to direct the contractor to dispose of the waste at a Class II or Class III facility with no additional payment provided.

#### 7-107F Disturbance of Existing Paint Systems on Bridge

Bridge paints contained high levels of lead, zinc, and chromium before being reformulated to reduce their toxicity. Even though the phase-out of those paints occurred many years ago, lead, zinc, and chromium are still a concern because when bridges are repainted, not all of the underlying layers of paint are completely removed. In addition, lead from the paint is actually absorbed into the steel and, as a result, even steel that no longer has paint on it can be a hazard if heated because heating releases lead as a toxic fume.

When bridge paints are disturbed, the paint debris must be properly contained to protect waterways and workers. It has been determined that the grime and debris that collects on bridges also contains elevated concentrations of lead. Consider this grime and debris part of the existing paint system.

When bridge paint will be disturbed as part of the project, the contract specifications will require a lead compliance plan for worker safety, waste management, and verification sampling to document that heavy metals are not released during the work.

The resident engineer must verify the following:

- **Training:** The contractor must provide a safety training program that meets the requirements in 8 CCR 1532.1, "Lead." Before performing any bridge paint removal, personnel, including Caltrans employees, who have had no previous lead training, must complete the safety training program.
- **Lead compliance plan:** Work practices and worker health and safety must conform to 8 CCR 1532.1. The contractor must submit the written compliance programs required in Subsection (e)(2), "Compliance Program," of 8 CCR 1532.1, to the resident engineer before starting to remove bridge paint and at such times when a program revision is required. An industrial hygienist certified by the American Board of Industrial Hygiene must prepare the compliance program. A competent person capable of taking corrective action must monitor

the program. Require that copies of all inspection reports made in accordance with 8 CCR 1532.1 are given to the resident engineer.

- **Debris containment and collection plan:** The contractor must submit a plan that documents the removal equipment and containment systems that will be used, removal and waste collection procedures, certified laboratory that will run the analyses, hazardous waste hauler certifications, and receiving disposal site and requirements. Work that will disturb the paint system may not start until the resident engineer has reviewed and accepted the plan.
- **Storage of residue:** The contractor must store the residue from paint disturbance or removal as follows:
  1. While waiting for any test results required by the disposal facility, store the collected residue as hazardous waste in properly labeled metal containers approved by the U.S. Department of Transportation for hazardous waste transport.
  2. Cover and handle the containers in such a manner that no spillage will occur.
  3. Enclose the stored containers with temporary chain link fencing or a lockable shipping container at a location within the project limits approved by the resident engineer.
  4. Begin disposing of the contained residue no more than 90 days after accumulating 220 pounds of residue.
- **Waste testing and disposal:** Before disposal, the contractor is required to test the residue collected in the containers for proper waste classification. Depending on the test results, disposal of the stored material is as follows:
  1. Dispose of the stored residue as hazardous waste when its lead content is detected to be at levels greater than 1,000 mg/kg total lead or greater than 5 mg/l soluble lead. Keep records in accordance with current requirements for hazardous waste handling and disposal, and file them in the project files. The contractor must dispose of all hazardous waste residues at an approved DTSC-permitted Class I disposal facility in accordance with the requirements of the disposal facility operator. A transporter currently registered with the DTSC using correct manifesting procedures must haul the residue.

The contractor must make all arrangements with the disposal facility operator and perform any testing of the residue required by the operator. The resident engineer must obtain the EPA or State Temporary Identification Number and sign all manifests as the generator. The resident engineer must also pay the manifest fees that may be billed several months after project completion.
  2. Unless the lead removal work was already contemplated in the construction contract, pay as change order work all work performed for testing, additional removal costs, retesting, and additional disposal.
  3. If the analytical test results demonstrate that the waste is actually nonhazardous, a change order must be prepared to direct the contractor to

dispose of the waste at a Class II or Class III facility with no additional payment provided.

- **Work area monitoring:** The contractor must perform air monitoring to demonstrate that lead is not being released from the containment structure and perform soil sampling before and after the work to demonstrate that lead has not been released to the ground beneath the work area. Consult the hazardous waste coordinator to determine the adequacy of the reports and whether a release has occurred requiring corrective action. If the area beneath the bridge is paved soil, sampling will not be included in the specifications. In these cases, look for color changes on the pavement that indicate a release of paint residue.

### 7-107G Treated Wood Waste

Treated wood has been used to support metal beam guard railing, three beam barrier, piles, and roadside signs. These wood products are typically treated with preserving chemicals that protect against insect attack and fungal decay. These chemicals may be hazardous and include, but are not limited to, arsenic, chromium, copper, creosote, and pentachlorophenol. The DTSC requires that treated wood waste (TWW) either be disposed of as hazardous waste or, if not tested, the generator may presume that TWW is a hazardous waste and manage the waste using DTSC's Alternative Management Standards. The standards are described in California Health and Safety Code, Chapter 6.5, Section 25230-25230.18, "Management of Treated Wood Waste." The standards ease storage requirements, extend accumulation periods, allow shipment of TWW without manifests and use of a registered hazardous waste hauler, and permit disposal at specific nonhazardous waste landfills.

Whenever TWW will be removed as part of the project, the contract specifications will direct the contractor to follow the alternative standards, including providing training to all personnel who may come into contact with TWW.

For projects that will generate more than 10,000 pounds of TWW per calendar year, the DTSC must be notified within 30 days of exceeding this weight threshold. Notification must include the name and mailing address of the generator, generator identification number, date that the 10,000-pound limit was or is expected to be exceeded, the weight of the TWW as measured by the receiving facility, and the name and address of the receiving facility. The resident engineer requests the temporary generator identification number from the DTSC and files an electronic form available on DTSC's website for TWW. The DTSC will forward a copy to the California State Board of Equalization which, in turn, sets up an administrative record. If a project will generate more than 10,000 pounds of TWW, a Basic Engineering Estimating System item 066915, "BOE TWW Generation Fee," will be included as a Caltrans-furnished material. This item will be paid before or during the closeout process of the project, up to 1 year after construction contract acceptance.

TWW can be shipped off-site by a hauler with a shipping document, bill of lading, or invoice serving as documentation. If TWW is less than 10,000 pounds per calendar

year per project, a generator identification number is not required. Records must be kept for 3 years from the date of the last waste shipment.

If there is limited space or no area to temporarily store TWW on the job site, it may be transferred to a remote consolidation site, such as a maintenance facility, or a location that meets all the requirements of California Health and Safety Code, Chapter 6.5, Section 25230.7 “Transfer of treated wood waste.”

#### 7-107H Disposal of Electrical Equipment Requiring Special Handling

California law defines certain types of electrical equipment as hazardous wastes when they are taken out of service. The Department of Toxic Substances Control requires special handling of these hazardous wastes; however, in most cases electrical wastes are not subject to full hazardous waste requirements such as listing on a manifest, use of hazardous waste haulers, and disposal in a Class I landfill. Instead there are management requirements specific to disposal of the type of electrical waste.

The contractor must identify the type of electrical equipment to be removed and manage disposal of electrical equipment defined by law as a hazardous waste in conformance with Section 14-11.15, “Disposal of Electrical Equipment Requiring Special Handling,” of the *Standard Specifications*. Thirty days before starting work, the contractor is required to submit the name and address of the appropriately permitted facilities to where this electrical equipment will be transported. Review this information and consult your district hazardous waste technical specialist to review the contractor’s plan.

The disposal of electrical equipment requiring special handling is included in the payment for the electrical bid items, unless the work is specified as change order work.

Types of electrical wastes generated on projects that are hazardous wastes are grouped into four categories and include:

1. Universal wastes such as:
  - a. All types of light bulbs
  - b. E-waste which is electronic devices containing:
    - 1 circuit boards, including controller boxes and LED lights
    - 2 computer screens or video screens
    - 3 computer keyboards
    - 4 cathode ray tube devices
  - c. batteries
  - d. mercury-containing equipment such as lamps, timers, and switches
  - e. fluorescent tubes, bulbs, and lamps
2. Electrical equipment containing polychlorinated biphenyls, or PCBs, such as:

- a. transformers and capacitors
- b. fluorescent light ballasts
3. Lead acid batteries
4. Photovoltaic panels

Universal wastes are hazardous wastes that are generated by all types of businesses as well as individual citizens. California's universal waste regulations allow individuals and businesses to transport, handle and recycle universal wastes, under less stringent requirements. However, universal wastes can adversely affect public health and the environment if not properly managed, and, therefore, must be disposed of or recycled at appropriately permitted facilities. The more relaxed requirements for managing universal wastes were adopted to assure that they are managed safely and are not disposed of in the regular trash.

Most waste batteries, with the exception of lead acid batteries, are universal wastes. The lithium thionyl chloride batteries found in vehicle sensor nodes are universal wastes when taken out of use, as long as they are undamaged. Section 14-11.15C(2)(b), "Undamaged Lithium Thionyl Chloride Batteries," of the *Standard Specifications* includes specific packaging requirements to prevent leakage of lithium thionyl chloride from the battery. Lithium thionyl chloride is considered an extremely hazardous waste and full hazardous waste regulations and specifications apply to the battery and the leaking chemical. If the contractor damages these batteries as a result of mishandling, the contractor is responsible for cleanup, management, and disposal and associated costs under Section 14-11.06, "Contractor-Generated Hazardous Waste," of the *Standard Specifications*. If the contractor finds lithium thionyl chloride batteries already damaged, Caltrans is the hazardous waste generator under Section 14-11.07, "Department-Generated Hazardous Waste," of the *Standard Specifications* and the cleanup, management, and disposal and associated costs are change order work and require a Caltrans EPA Generator Identification Number before the waste can be shipped.

PCB disposal is specially regulated under the US EPA Toxic Substances Control Act (TSCA) and other federal and state laws and regulations. PCB manufacture ended in the 1970s, but the substance may still be found in older transformers, capacitors, and fluorescent light ballasts. A Caltrans EPA Generator Identification Number must be obtained before these wastes can be shipped. Specific hazardous waste regulations apply to transformers and capacitors and separate hazardous waste regulations for fluorescent light ballasts. If light ballasts are damaged and may leak, additional regulations apply because released PCBs are considered an extremely hazardous waste. If the contractor mishandles a fluorescent light ballast causing it to leak PCBs, the contractor is responsible for cleanup, management, and disposal and associated costs under section 14-11.06, "Contractor-Generated Hazardous Waste," of the *Standard Specifications*. If the contractor finds fluorescent light ballasts already leaking PCBs, Caltrans is the hazardous waste generator of this extremely hazardous waste under Section 14-11.07, "Department-Generated Hazardous Waste," of the *Standard Specifications* and the cleanup, management, and disposal and associated costs are change order work.

Lead acid batteries, like those used to start gasoline-powered vehicles, are used in battery backup systems for equipment such as traffic lights. There are specific federal and state regulations on packaging, shipment, and recycling of these batteries. If 9 or fewer batteries are shipped, a bill of lading is used. If 10 or more batteries are shipped, a hazardous waste manifest must be by an EPA Generator Identification Number before transporting.

Photovoltaic panels taken out of service are considered hazardous wastes because of their heavy metals content. They must be managed under the full hazardous waste regulation requirements as Caltrans-generated hazardous waste under section 14-11.07, "Department-Generated Hazardous Waste," of the *Standard Specifications*. Obtain an EPA Generator Identification Number before the photovoltaic panels can be shipped.

### 7-107I Unanticipated Discovery of Hazardous Waste and Contamination

Caltrans construction employees must follow safe practices and minimize their exposure after discovery of unanticipated and unidentified hazardous wastes and contamination. Minimize potential risks during project construction by having all construction personnel follow the general procedures below:

- After unknown and potentially hazardous wastes and contamination, including underground tanks, are discovered, cease construction work in that area. When a waste is discovered, follow the procedure described in Figure 7-1.1, "Unknown Hazards Procedure," of this manual.
- Secure the area with barriers or fences, and evacuate the vicinity.
- Prohibit construction personnel from any exploratory or investigative work that would result in further personal exposure. Such personnel are prohibited from taking samples or testing potentially hazardous waste and contamination. This prohibition includes activities such as:
  1. Touching, smelling, or ingesting suspected materials.
  2. Climbing into trenches or enclosed areas where contamination is suspected.
  3. Reaching, looking, or placing a foreign object, such as a stick to probe or a rock to test depth or to determine the presence of a liquid, into exposed or leaking tanks or other enclosed spaces.
  4. Using the prime contractor's forces, including subcontractors, to respond to an unanticipated discovery if the type of hazard was not identified in the original contract documents is specifically prohibited by law. The contractor must stop work in the area and Caltrans must independently hire a Class A contractor with a Hazardous Waste Substances Removal Certification to respond. To compel a rapid response, Caltrans regions and districts are the contract administrators for on-call construction emergency contracts. For assistance, contact the contract manager for your specific region or district. A contact list is available on the Environmental Analysis Construction Emergency Contacts intranet page.

- For any necessary exploratory, investigative, or cleanup work, use specialized consultants or safety workers who are fully trained, licensed, and qualified for hazardous waste work in accordance with state and federal regulations.
- Because of potentially catastrophic health effects, 29 CFR 1910.120, “Hazardous Waste Operations and Emergency Response,” requires that no one enter the designated exclusion zones until a complete and effective “hazardous waste worker protection program” is established or until the consultant has determined no exposure danger exists. The designated exclusion zones are delineated in the consultant-prepared hazardous waste site safety plans.

### **7-108 Crumb Rubber Usage Reporting**

For projects that include items of work that use crumb rubber modifier, the contractor is required to report crumb rubber usage on Form DOT CEM-4410, “Crumb Rubber Usage Report.” Crumb rubber is used in the following items of work:

- Rubberized hot mix asphalt
- Hot mix asphalt with performance grade modified asphalt binder with crumb rubber modifier
- Seal coat with crumb rubber modifier
- Vegetation control (minor concrete)

The contractor is required to track and report the number of pounds of crumb rubber used throughout the duration of the contract. The contractor reports the monthly usage and total year-to-date usage information monthly on Form DOT CEM-4410. During the preconstruction conference, the resident engineer must advise the contractor that this form is available on the Division of Construction’s forms website. The requirements of the form should be explained and reiterated during the preconstruction conference held at the beginning of the project and preconstruction meetings for the various items of work that include crumb rubber.

The contractor submits the form monthly, for ongoing contracts, to the resident engineer by the 10th of the month following the reporting period, and a final report at the end of the project. If no crumb rubber was used during the reporting period, the contractor checks the “No crumb rubber was used” check box.

Form DOT CEM-4410 must be completely filled out and certified by the contractor for it to be acceptable. The resident engineer must review for accuracy all reports submitted by the contractor. The resident engineer completes and signs the section of the form verifying that the supplier is on the Authorized Materials List, quantities were paid on the monthly estimate, and that the contractor submitted the report to [CRM@dot.ca.gov](mailto:CRM@dot.ca.gov).

In accordance with Section 9-1.16E(3), “Performance Failure Withholds,” of the *Standard Specifications*, withhold \$10,000 for each failure to submit a completed report.

### **7-109 Solid Waste Disposal and Recycling Reporting**

Solid waste disposal and recycling reports require the contractor to track and report landfill disposal and material recycling activity performed throughout the duration of the contract. The contractor reports this information annually on Form DOT CEM-4401, "Solid Waste Disposal and Recycling Report." During the preconstruction conference, the resident engineer must advise the contractor that this form is available on the Division of Construction's forms website. The requirements of the form should be explained and reiterated during the preconstruction conference and other meetings.

Form DOT CEM-4401 must include, at a minimum:

- The report calendar year
- Amount of solid waste taken to landfills
- Amount of solid waste diverted from landfills to recycling facilities
- Amount of recycled material generated and then reused on a project
- Name, title, and signature of the contractor's representative
- Date of the report

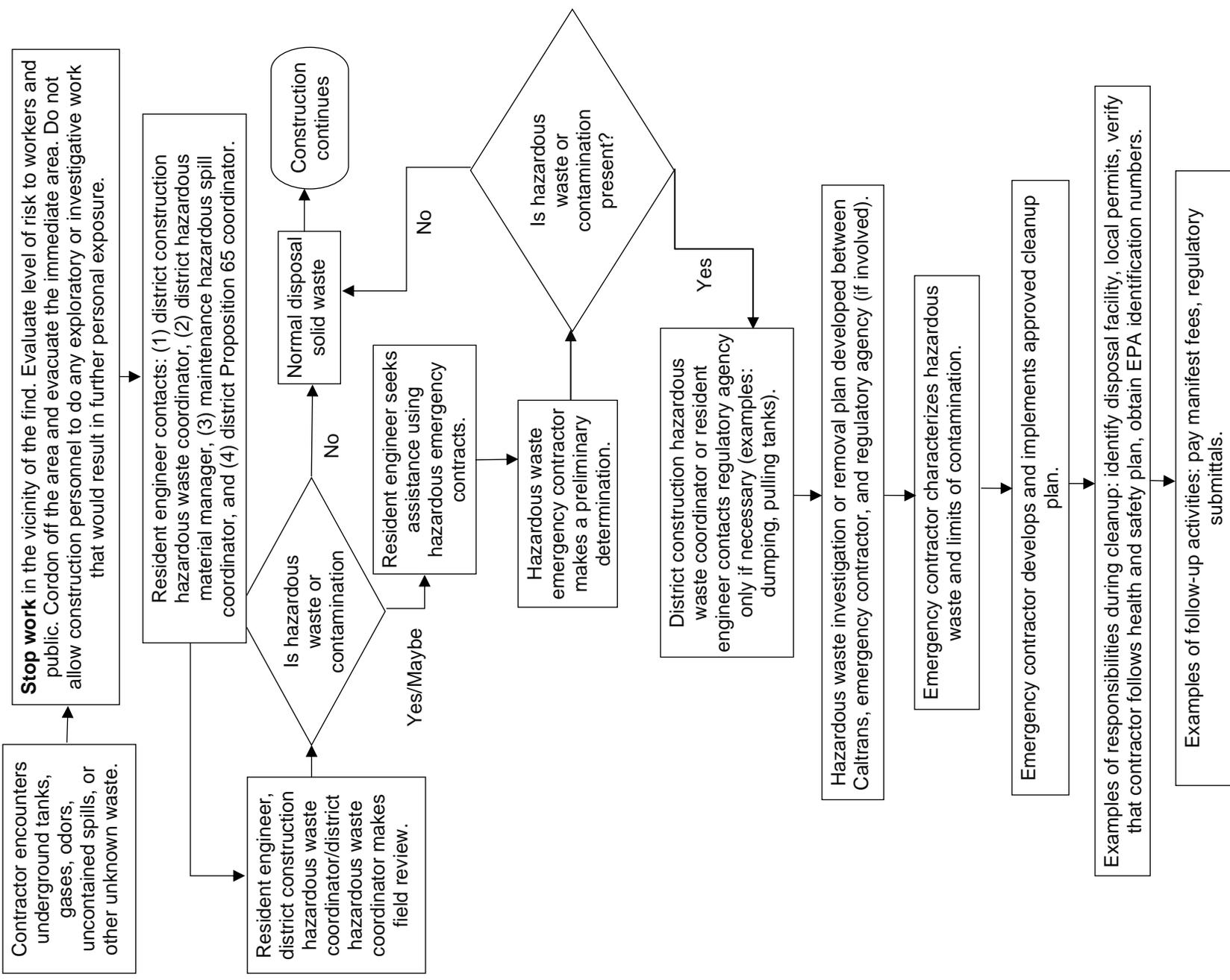
The contractor submits the annual report for ongoing contracts to the resident engineer by January 15, and a final annual report 5 days following contract acceptance. If no work was conducted during the reporting period, the report states that no work was performed during that period.

Section 14-10.02, "Solid Waste Disposal and Recycling Report," of the *Standard Specifications*, requires that the contractor submit to the resident engineer a final solid waste disposal and recycling report before the contract can be finalized.

Form DOT CEM-4401 must be completely filled out and signed by the contractor for it to be acceptable. The resident engineer must review for accuracy all reports submitted by the contractor. Compare the total amount listed on Forms DOT CEM-4401 of materials taken to and diverted from landfills with the approximate amount of work requiring the removal of materials. Before signing each report, resolve any discrepancies in material type or amount with the contractor. In accordance with Section 14-10.02, Caltrans withholds \$10,000 for each failure to submit a completed report.

The resident engineer must submit the approved Form DOT CEM-4401 to the district recycling coordinator with a copy to the district Construction office no later than February 1 of each year or within 15 days after receiving the final report. Contact information for district and statewide recycling coordinators is available on Construction's District Recycling Coordinators intranet page.

Figure 7-1.1. Unknown Hazards Procedure



## **7-110 Certificate of Environmental Compliance**

A Certificate of Environmental Compliance (CEC) is prepared at the end of construction to document and certify Caltrans' environmental compliance efforts for measures specified in final project documentation, including permits, licenses, agreements, and certifications (PLACs) and the environmental commitment record (ECR).

For any commitments not completed by the end of construction, initiate notification to, and have ongoing communication with, appropriate staff including, but not limited to, the environmental construction liaison, project manager, and Environmental Compliance Unit chief, to discuss and document the timing, staff, and resources of when those commitments will be completed, and to identify who is responsible for tracking such completion efforts. All activities to complete post-construction commitments are identified in the CEC. The resident engineer is responsible for ensuring that the CEC is prepared and distributed. The CEC refers to the ECR to determine:

- Whether the environmental commitments were met and, if not, which measures were implemented
- Which contract specifications satisfied environmental commitments and concerns
- Whether additional environmental commitments are required as a result of project changes, and their outcomes

The updated ECR will serve as the basis for the CEC documentation.

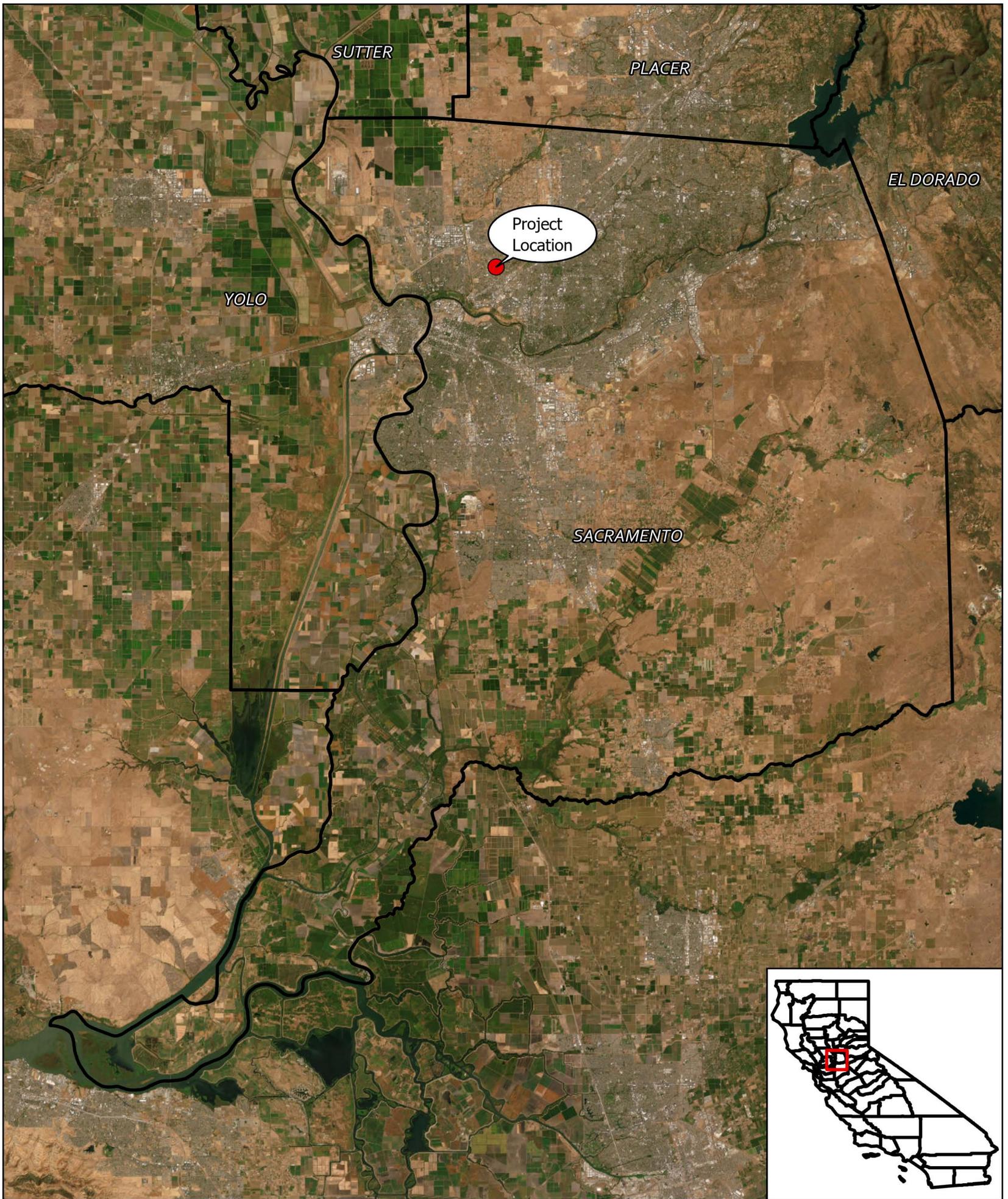
The CEC will be signed by the environmental construction liaison, environmental compliance branch chief, project manager, and resident engineer, and will be filed in the project files.

Provide copies of the CEC to all district or regional organizational units responsible for the project including Environmental Analysis, Design, Project Management, and Construction.

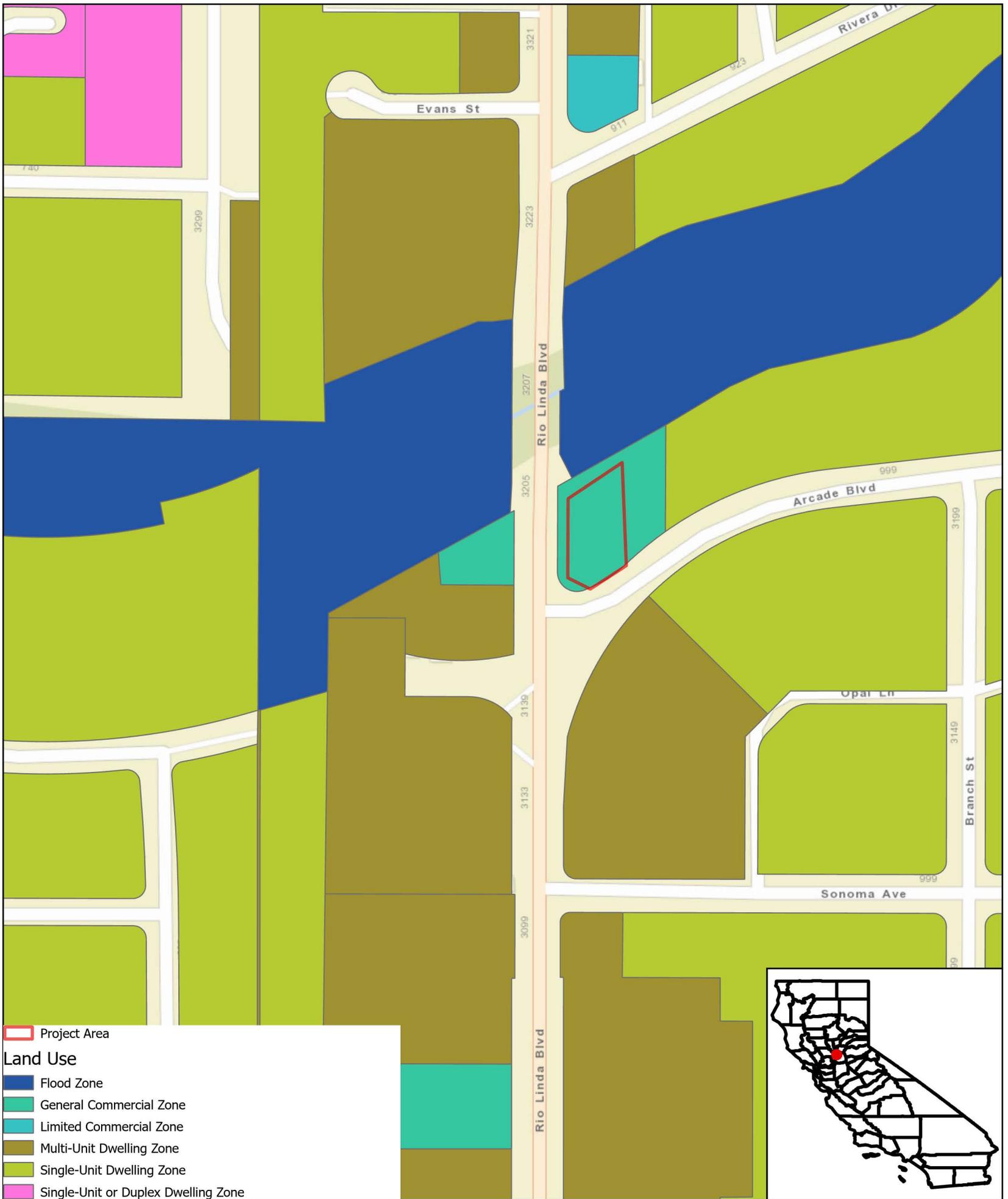
Discuss the CEC fully at the project closeout meeting. This can result in identifying the lessons learned on the project and areas of environmental compliance that may need improvement. Include district maintenance staff in the project closeout meeting if there are post-project commitments.

The CEC form is available on the Environmental Compliance Unit website:

<https://dot.ca.gov/programs/construction/environmental>

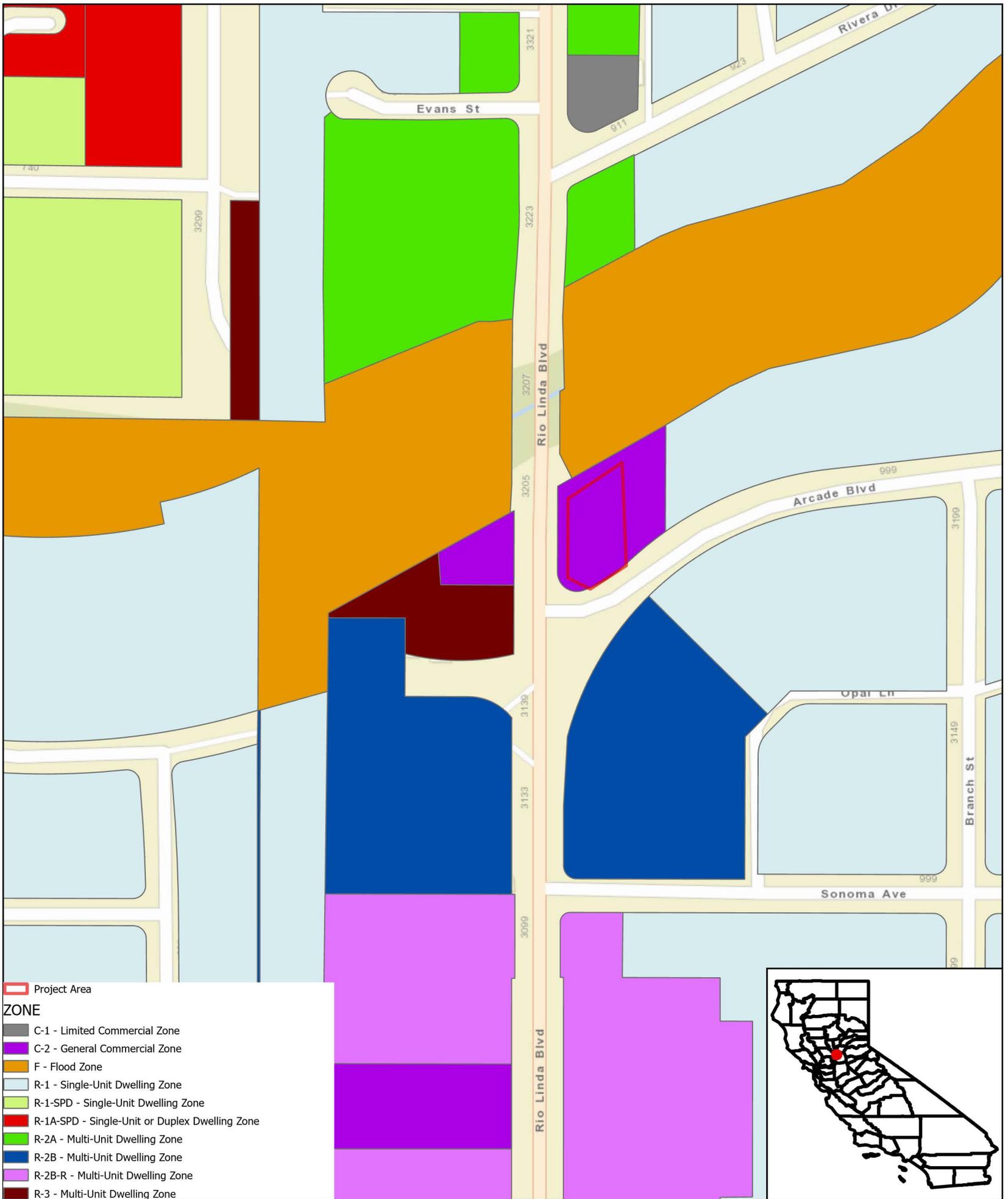


**Figure 1**  
**Vicinity Map**



**Figure 2**  
**Land Use Map**

City of Sacramento. Sacramento County, California



**Figure 3**  
**Zone Designation Map**  
 City of Sacramento. Sacramento County, California



- Project Area
- Abandoned Building
- Awning/Gas Pumps
- Fuel Storage
- Garage
- House
- Walkway

0 50 100 US Feet



**Figure 4  
Site Plan**

City of Sacramento. Sacramento County, California