

***2481 DEERWOOD DRIVE  
AIR QUALITY AND  
GREENHOUSE GAS  
EMISSIONS ASSESSMENT***

***San Ramon, California***

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## **Introduction**

The purpose of this report is to address air quality and greenhouse gas (GHG) emission impacts associated with the proposed residential project located at 2481 Deerwood Drive in San Ramon, California. The air quality impacts and GHG emissions would be associated with the demolition of an existing office building and construction of the new residences. Air pollutant and GHG emissions associated with the construction and operation of the project were predicted using appropriate computer models. In addition, the potential project health risk impact (including construction and operation) and the impacts of existing toxic air contaminant (TAC) sources affecting the nearby and proposed sensitive receptors were evaluated. This analysis addresses those issues following the guidance provided by the Bay Area Air Quality Management District (BAAQMD).<sup>1</sup>

## **Project Description**

Trumark Homes proposes to demolish a 51,000-square foot (sf) office building and construct 61 units of two or three-story multi-family residential units, of which 15-percent are dedicated as affordable housing units. The project site is 4.4 acres, which the existing office resides on 2.77 acres. The remaining 1.66 acres are undeveloped. The proposed residential development would utilize a similar footprint on the site. The Project site is surrounded by residences on three sides and open space on the south side.

## **Setting**

The project is located in Contra Costa County, which is in the San Francisco Bay Area Air Basin. Ambient air quality standards have been established at both the State and federal level. The Bay Area meets all ambient air quality standards with the exception of ground-level ozone, respirable particulate matter (PM<sub>10</sub>), and fine particulate matter (PM<sub>2.5</sub>).

### Air Pollutants of Concern

High ozone levels are caused by the cumulative emissions of reactive organic gases (ROG) and nitrogen oxides (NO<sub>x</sub>). These precursor pollutants react under certain meteorological conditions to form high ozone levels. Controlling the emissions of these precursor pollutants is the focus of the Bay Area's attempts to reduce ozone levels. The highest ozone levels in the Bay Area occur in the eastern and southern inland valleys that are downwind of air pollutant sources. High ozone levels aggravate respiratory and cardiovascular diseases, reduced lung function, and increase coughing and chest discomfort.

Particulate matter is another problematic air pollutant of the Bay Area. Particulate matter is assessed and measured in terms of respirable particulate matter or particles that have a diameter of 10 micrometers or less (PM<sub>10</sub>) and fine particulate matter where particles have a diameter of 2.5 micrometers or less (PM<sub>2.5</sub>). Elevated concentrations of PM<sub>10</sub> and PM<sub>2.5</sub> are the result of both region-wide (or cumulative) emissions and localized emissions. High particulate matter levels

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<sup>1</sup> Bay Area Air Quality Management District, *CEQA Air Quality Guidelines*, May 2017.

aggravate respiratory and cardiovascular diseases, reduce lung function, increase mortality (e.g., lung cancer), and result in reduced lung function growth in children.

### Toxic Air Contaminants

TACs are a broad class of compounds known to cause morbidity or mortality (usually because they cause cancer) and include, but are not limited to, the criteria air pollutants. TACs are found in ambient air, especially in urban areas, and are caused by industry, agriculture, fuel combustion, and commercial operations (e.g., dry cleaners). TACs are typically found in low concentrations, even near their source (e.g., diesel particulate matter [DPM] near a freeway). Because chronic exposure can result in adverse health effects, TACs are regulated at the regional, State, and federal level.

Diesel exhaust is the predominant TAC in urban air and is estimated to represent about three-quarters of the cancer risk from TACs (based on the Bay Area average). According to the California Air Resources Board (CARB), diesel exhaust is a complex mixture of gases, vapors, and fine particles. This complexity makes the evaluation of health effects of diesel exhaust a complex scientific issue. Some of the chemicals in diesel exhaust, such as benzene and formaldehyde, have been previously identified as TACs by the CARB, and are listed as carcinogens either under the State's Proposition 65 or under the Federal Hazardous Air Pollutants programs. The most recent Office of Environmental Health Hazard Assessment (OEHHA) risk assessment guidelines were published in February of 2015.<sup>2</sup>

### Sensitive Receptors

There are groups of people more affected by air pollution than others. CARB has identified the following persons who are most likely to be affected by air pollution: children under 16, the elderly over 65, athletes, and people with cardiovascular and chronic respiratory diseases. These groups are classified as sensitive receptors. Locations that may contain a high concentration of these sensitive population groups include residential areas, hospitals, daycare facilities, elder care facilities, elementary schools, and parks. For health risk assessments, children are the most sensitive receptors, since they are more susceptible to cancer causing TACs. Residential locations are assumed to include infants and small children. The closest sensitive receptors to the project site are in the adjacent residences to the west and east and residences across Deerwood Drive to the north.

### Regulatory Setting

#### *Federal Regulations*

The United States Environmental Protection Agency (EPA) sets nationwide emission standards for mobile sources, which include on-road (highway) motor vehicles such trucks, buses, and automobiles, and non-road (off-road) vehicles and equipment used in construction, agricultural,

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<sup>2</sup> OEHHA, 2015. *Air Toxics Hot Spots Program Risk Assessment Guidelines, The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. Office of Environmental Health Hazard Assessment. February.

industrial, and mining activities (such as bulldozers and loaders). The EPA also sets nationwide fuel standards. California also has the ability to set motor vehicle emission standards and standards for fuel used in California, as long as they are the same or more stringent than the Federal standards.

In the past decade the EPA has established a number of emission standards for on- and non-road heavy-duty diesel engines used in trucks and other equipment. This was done in part because diesel engines are a significant source of nitrogen oxides, or NO<sub>x</sub>, and particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>) and because the EPA has identified diesel particulate matter as a probable carcinogen. Implementation of the heavy-duty diesel on-road vehicle standards and the non-road diesel engine standards are estimated to reduce PM and NO<sub>x</sub> emissions from diesel engines up to 95 percent in 2030 when the heavy-duty vehicle fleet is completely replaced with newer heavy-duty vehicles that comply with these emission standards.<sup>3</sup>

In concert with the diesel engine emission standards, the EPA has also substantially reduced the amount of sulfur allowed in diesel fuels. The sulfur contained in diesel fuel is a significant contributor to the formation of particulate matter in diesel-fueled engine exhaust. The new standards reduced the amount of sulfur allowed by 97 percent for highway diesel fuel (from 500 parts per million by weight [ppmw] to 15 ppmw), and by 99 percent for off-highway diesel fuel (from about 3,000 ppmw to 15 ppmw). The low sulfur highway fuel (15 ppmw sulfur), also called ultra-low sulfur diesel (ULSD) is currently required for use by all vehicles in the U.S.

All of the above Federal diesel engine and diesel fuel requirements have been adopted by California, in some cases with modifications making the requirements more stringent or the implementation dates sooner.

### *State Regulations*

To address the issue of diesel emissions in the state, CARB developed the Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles<sup>4</sup>. In addition to requiring more stringent emission standards for new on-road and off-road mobile sources and stationary diesel-fueled engines to reduce particulate matter emissions by 90 percent, a significant component of the plan involves application of emission control strategies to existing diesel vehicles and equipment. Many of the measures of the Diesel Risk Reduction Plan have been approved and adopted, including the Federal on-road and non-road diesel engine emission standards for new engines, as well as adoption of regulations for low sulfur fuel in California.

CARB has adopted and implemented a number of regulations for stationary and mobile sources to reduce emissions of DPM. Several of these regulatory programs affect medium and heavy-duty diesel trucks that represent the bulk of DPM emissions from California highways. CARB

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<sup>3</sup> USEPA, 2000. *Regulatory Announcement, Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel Sulfur Control Requirements*. EPA420-F-00-057. December.

<sup>4</sup> California Air Resources Board, 2000. *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*. October.

regulations require on-road diesel trucks to be retrofitted with particulate matter controls or replaced to meet 2010 or later engine standards that have much lower DPM and PM<sub>2.5</sub> emissions. This regulation will substantially reduce these emissions between 2013 and 2023. While new trucks and buses will meet strict federal standards, this measure is intended to accelerate the rate at which the fleet either turns over so there are more cleaner vehicles on the road, or is retrofitted to meet similar standards. With this regulation, older, more polluting trucks would be removed from the roads sooner.

CARB has also adopted and implemented regulations to reduce DPM and NO<sub>x</sub> emissions from in-use (existing) and new off-road heavy-duty diesel vehicles (e.g., loaders, tractors, bulldozers, backhoes, off-highway trucks, etc.). The regulations apply to diesel-powered off-road vehicles with engines 25 horsepower (hp) or greater. The regulations are intended to reduce particulate matter and NO<sub>x</sub> exhaust emissions by requiring owners to turn over their fleet (replace older equipment with newer equipment) or retrofit existing equipment in order to achieve specified fleet-averaged emission rates. Implementation of this regulation, in conjunction with stringent Federal off-road equipment engine emission limits for new vehicles, will significantly reduce emissions of DPM and NO<sub>x</sub>.

#### *Bay Area Air Quality Management District (BAAQMD)*

BAAQMD has jurisdiction over an approximately 5,600-square mile area, commonly referred to as the San Francisco Bay Area (Bay Area). The District's boundary encompasses the nine San Francisco Bay Area counties, including Alameda County, Contra Costa County, Marin County, San Francisco County, San Mateo County, Santa Clara County, Napa County, southwestern Solano County and southern Sonoma County.

BAAQMD is the lead agency in developing plans to address attainment and maintenance of the National Ambient Air Quality Standards and California Ambient Air Quality Standards. The District also has permit authority over most types of stationary equipment utilized for the proposed project. The BAAQMD is responsible for permitting and inspection of stationary sources; enforcement of regulations, including setting fees, levying fines, and enforcement actions; and ensuring that public nuisances are minimized.

BAAQMD's Community Air Risk Evaluation (CARE) program was initiated in 2004 to evaluate and reduce health risks associated with exposures to outdoor TACs in the Bay Area.<sup>5</sup> The program examines TAC emissions from point sources, area sources, and on-road and off-road mobile sources with an emphasis on diesel exhaust, which is a major contributor to airborne health risk in California. The CARE program is an on-going program that encourages community involvement and input. The technical analysis portion of the CARE program is being implemented in three phases that includes an assessment of the sources of TAC emissions, modeling and measurement programs to estimate concentrations of TAC, and an assessment of exposures and health risks. Throughout the program, information derived from the technical analyses will be used to focus emission reduction measures in areas with high TAC exposures and high density of sensitive populations. Risk reduction activities associated with the CARE program are focused on the most

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<sup>5</sup> See BAAQMD: <https://www.baaqmd.gov/community-health/community-health-protection-program/community-air-risk-evaluation-care-program> , accessed 2/18/2021.

at-risk communities in the Bay Area. The BAAQMD has identified six communities as impacted: Concord, Richmond/San Pablo, Western Alameda County, San José, Redwood City/East Palo Alto, and Eastern San Francisco. The project site is not within an at-risk community area. The overall CalEnviroScreen4.0 score is 10.

The BAAQMD *California Environmental Quality Act (CEQA) Air Quality Guidelines*<sup>6</sup> were prepared to assist in the evaluation of air quality impacts of projects and plans proposed within the Bay Area. The guidelines provide recommended procedures for evaluating potential air impacts during the environmental review process consistent with CEQA requirements including thresholds of significance, mitigation measures, and background air quality information. They also include assessment methodologies for air toxics, odors, and greenhouse gas emissions. In June 2010, the BAAQMD's Board of Directors adopted CEQA thresholds of significance and an update of their *CEQA Guidelines*. In May 2011, the updated BAAQMD *CEQA Air Quality Guidelines* were amended to include a risk and hazards threshold for new receptors and modify procedures for assessing impacts related to risk and hazard impacts.

#### *City of San Ramon General Plan 2035*

Adopted April 28, 2015, the *San Ramon 2035 General Plan* includes goals, policies, and actions to improve air quality issues facing the City of San Ramon and to reduce the exposure of the City's population to air pollution.<sup>7</sup> The following goals, policies, and actions are applicable to the proposed project:

##### *Guiding Policies- Regional Coordination*

12.4-G-1 Improve and protect San Ramon's air quality and promote improvements in sub-regional air quality.

##### *Implementing Policies*

12.4-I-3 Analyze the air quality and climate change impacts of discretionary projects using applicable regulatory guidance; for example, the BAAQMD's CEQA Air Quality Guidelines.

##### *Guiding Policies – Hazardous Emissions and Public Health*

12.6-G-1 Minimize exposure of the public to hazardous air pollutant emissions, particulates, and noxious odors from freeways, major arterial roadways, commercial and industrial uses with substantial truck trips, and other uses that produce toxic emissions through the use and handling of fuels and solvents.

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<sup>6</sup> Bay Area Air Quality Management District, 2011. *CEQA Air Quality Guidelines*. May. (Updated May 2017)

<sup>7</sup> City of San Ramon, California (2015). "Chapter 12 Air Quality and Greenhouse Gas". *City of San Ramon General Plan 2035*. [http://www.ci.san-ramon.ca.us/UserFiles/Servers/Server\\_10826046/File/Our%20City/Departments/Community%20Development/Planning/General%20Plan/General%20Plan%202035%202017-07-01/12%20Air%20Quality.pdf](http://www.ci.san-ramon.ca.us/UserFiles/Servers/Server_10826046/File/Our%20City/Departments/Community%20Development/Planning/General%20Plan/General%20Plan%202035%202017-07-01/12%20Air%20Quality.pdf)

*Implementing Policies*

- 12.6-I-1 Locate sources of hazardous emissions at appropriate distances from existing and planned sensitive land uses in order to minimize or avoid potential health risks to people that might result from hazardous air pollutant emissions. Locate residential development projects and projects categorized as sensitive receptors at adequate distances from existing and potential sources of hazardous emissions.
- 12.6-I-3 Require construction and grading activities to incorporate particulate emissions reduction measures.
- 12.6-I-4 Require all new wood-burning stoves and fireplaces to comply with EPA- and BAAQMD-approved standards and provide informational handouts outlining low-emission alternatives to wood-burning fireplaces.

*Guiding Policies- Energy Efficiency and Conservation*

- 12.9-G-1 Minimize air emissions and potential climate change impacts related to energy consumption in government operations and the community.

*Implementing Policies*

- 12.8-I-1 Increase the use of energy conservation features, renewable sources of energy and low-emission equipment in new and existing development projects within the City.
- 12.8-I-2 Encourage the use of solar-ready roofs into residential and commercial development. New residential development should include proper solar orientation (south-facing roof area sloped at 20° to 55° from the horizontal), clear access on the south sloped roof (no chimneys, heating vents, plumbing vents, etc.), electrical conduit installed for solar electric system wiring, plumbing installed for solar hot water systems, and space provided for a solar hot water storage tank. Roofs for commercial development should be designed to maximize potential area available for solar panels and provide electrical conduit to support future installation.

*Guiding Policies- Climate Change*

- 12.9-G-1 Reduce the City's proportionate contribution of greenhouse gas emissions and the potential impact that may result in climate change from internal governmental operations and land use activities within its authority.

*Implementing Policies*

- 12.9-I-5 Utilize tiered significance thresholds, as available, for the evaluation of project greenhouse gas emissions impacts, the preparation of project level greenhouse gas emission inventories, and the identification and application of mitigation.

## Significance Thresholds

In June 2010, BAAQMD adopted thresholds of significance to assist in the review of projects under CEQA and these significance thresholds were contained in the District's 2011 *CEQA Air Quality Guidelines*. These thresholds were designed to establish the level at which BAAQMD believed air pollution emissions would cause significant environmental impacts under CEQA. The thresholds were challenged through a series of court challenges and were mostly upheld. BAAQMD updated the *CEQA Air Quality Guidelines* in 2017 to include the latest significance thresholds that were used in this analysis are summarized in Table 1. Impacts above these thresholds are considered potentially significant.

**Table 1. BAAQMD CEQA Significance Thresholds**

Criteria Air Pollutant	Construction Thresholds	Operational Thresholds	
	Average Daily Emissions (lbs./day)	Average Daily Emissions (lbs./day)	Annual Average Emissions (tons/year)
ROG	54	54	10
NO <sub>x</sub>	54	54	10
PM <sub>10</sub>	82 (Exhaust)	82	15
PM <sub>2.5</sub>	54 (Exhaust)	54	10
CO	Not Applicable	9.0 ppm (8-hour average) or 20.0 ppm (1-hour average)	
Fugitive Dust	Construction Dust Ordinance or other Best Management Practices	Not Applicable	
<b>Health Risks and Hazards</b>	<b>Single Sources Within 1,000-foot Zone of Influence</b>	<b>Combined Sources (Cumulative from all sources within 1000-foot zone of influence)</b>	
Excess Cancer Risk	10 per one million	100 per one million	
Hazard Index	1.0	10.0	
Incremental annual PM <sub>2.5</sub>	0.3 µg/m <sup>3</sup>	0.8 µg/m <sup>3</sup>	
Note: ROG = reactive organic gases, NO <sub>x</sub> = nitrogen oxides, PM <sub>10</sub> = course particulate matter or particulates with an aerodynamic diameter of 10 micrometers (µm) or less, PM <sub>2.5</sub> = fine particulate matter or particulates with an aerodynamic diameter of 2.5µm or less. *BAAQMD does not have a recommended post-2020 GHG threshold.			



## AIR QUALITY IMPACTS AND MITIGATION MEASURES

### **Impact AIR-1: Conflict with or obstruct implementation of the applicable air quality plan?**

BAAQMD is the regional agency responsible for overseeing compliance with State and Federal laws, regulations, and programs within the San Francisco Bay Area Air Basin (SFBAAB). BAAQMD, with assistance from the Association of Bay Area Governments (ABAG) and Metropolitan Transportation Commission (MTC), prepares and implements specific plans to meet the applicable laws, regulations, and programs. The most recent and comprehensive of which is the *Bay Area 2017 Clean Air Plan*.<sup>8</sup> The primary goals of the Clean Air Plan are to attain air quality standards, reduce population exposure and protect public health, and reduce GHG emissions and protect the climate. The BAAQMD has also developed CEQA guidelines to assist lead agencies in evaluating the significance of air quality and GHG impacts. In formulating compliance strategies, BAAQMD relies on planned land uses established by local general plans. Land use planning affects vehicle travel, which, in turn, affects region-wide emissions of air pollutants and GHGs.

The 2017 Clean Air Plan, adopted by BAAQMD in April 2017, includes control measures that are intended to reduce air pollutant emissions in the Bay Area either directly or indirectly. Plans must show consistency with the control measures listed within the Clean Air Plan. At the project-level, there are no consistency measures or thresholds. The proposed project would not conflict with the latest Clean Air planning efforts since 1) project would have construction and operational emissions below the BAAQMD thresholds (see Impact 2 below), 2) the project would be considered urban infill, and 3) the project would be located near employment centers.

### **Impact AIR-2: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?**

The Bay Area is considered a non-attainment area for ground-level O<sub>3</sub> and PM<sub>2.5</sub> under both the Federal Clean Air Act and the California Clean Air Act. The area is also considered non-attainment for PM<sub>10</sub> under the California Clean Air Act, but not the federal act. The area has attained both State and Federal ambient air quality standards for carbon monoxide. As part of an effort to attain and maintain ambient air quality standards for O<sub>3</sub>, PM<sub>2.5</sub> and PM<sub>10</sub>, the BAAQMD has established thresholds of significance for these air pollutants and their precursors. These thresholds are for O<sub>3</sub> precursor pollutants (ROG and NO<sub>x</sub>), PM<sub>10</sub>, and PM<sub>2.5</sub> and apply to both construction period and operational period impacts.

### **Construction Period Emissions**

The California Emissions Estimator Model (CalEEMod) Version 2020.4.0 was used to estimate emissions from on-site construction activity, construction vehicle trips, and evaporative emissions. The project land use types and size, and anticipated construction schedule were input to CalEEMod. The CalEEMod model output along with construction inputs are included in *Attachment 1*.

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<sup>8</sup> Bay Area Air Quality Management District (BAAQMD), 2017. *Final 2017 Clean Air Plan*.

## CalEEMod Inputs

### *Land Use Inputs*

The proposed project land uses were entered into CalEEMod as described in Table 2.

**Table 2. Summary of Project Land Use Inputs**

<b>Project Land Uses</b>	<b>Size</b>	<b>Units</b>	<b>Square Feet (sf)</b>	<b>Acreage</b>
Condo/Townhouse	61	Dwelling Unit	109,678	2.8

### *Construction Inputs*

CalEEMod computes annual emissions for construction that are based on the project type, size and acreage. The model provides emission estimates for both on-site and off-site construction activities. On-site activities are primarily made up of construction equipment emissions, while off-site activity includes worker, hauling, and vendor traffic. The construction build-out scenario, including equipment list and schedule, were based on the CalEEMod model default settings for a project of this type and size.

The construction CalEEMod defaults included a schedule for each phase. Within each phase, the quantity of equipment to be used along with the average hours per day and total number of workdays was set to the default values in CalEEMod. The CalEEMod default construction schedule assumed that the estimated start date would be Summer 2023, and the project would be built out over a period of approximately 12 months, or 269 construction workdays. This is considered the most active period of construction where diesel-powered equipment is used. There would be finishing work that would follow. The project's occupancy could start late 2024, but the earliest year of full operation was assumed to be 2025.

### Summary of Computed Construction Period Emissions

Average daily emissions were computed by dividing the total construction emissions by the number of active construction workdays (269 days). Table 3 shows average daily construction emissions of ROG, NO<sub>x</sub>, PM<sub>10</sub> exhaust, and PM<sub>2.5</sub> exhaust during construction of the project. As indicated in Table 3, predicted construction period emissions would not exceed the BAAQMD significance thresholds.

**Table 3. Unmitigated Construction Period Emissions**

<b>Year</b>	<b>ROG</b>	<b>NO<sub>x</sub></b>	<b>PM<sub>10</sub> Exhaust</b>	<b>PM<sub>2.5</sub> Exhaust</b>
Total Construction Emissions (tons)	0.99 tons	1.76 tons	0.07 tons	0.07 tons
<b>Average daily emissions (pounds)<sup>1</sup></b>	7.4 lbs.	13.1 lbs.	0.5 lbs.	0.5 lbs.
<i>BAAQMD Thresholds (pounds per day)</i>	54 lbs./day	54 lbs./day	82 lbs./day	54 lbs./day
<b>Exceed Threshold?</b>	No	No	No	No

Notes: <sup>1</sup>Assumes 269 workdays.

Construction activities, particularly during site preparation and grading, would temporarily generate fugitive dust in the form of PM<sub>10</sub> and PM<sub>2.5</sub>. Sources of fugitive dust would include

disturbed soils at the construction site and trucks carrying uncovered loads of soils. Unless properly controlled, vehicles leaving the site would deposit mud on local streets, which could be an additional source of airborne dust after it dries. The BAAQMD CEQA Air Quality Guidelines consider these impacts to be less-than-significant if best management practices are implemented to reduce these emissions. General Plan implementing measure 12.6-I-3 requires construction and grading activities to incorporate particulate emissions reduction measures. To ensure compliance, *Mitigation Measure AQ-1* would implement BAAQMD-recommended best management practices.

***Mitigation Measure AQ-1: Include measures to control dust and exhaust during construction.***

During any construction period ground disturbance, the applicant shall ensure that the project contractor implement measures to control dust and exhaust. Implementation of the measures recommended by BAAQMD and listed below would reduce the air quality impacts associated with grading and new construction to a less-than-significant level. Additional measures are identified to reduce construction equipment exhaust emissions. The contractor shall implement the following best management practices that are required of all projects:

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
2. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.
3. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
4. All vehicle speeds on unpaved roads shall be limited to 15 miles per hour (mph).
5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.
6. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.
7. All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.
8. Post a publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

### *Effectiveness of Mitigation Measure AQ-1*

The measures above are consistent with BAAQMD-recommended basic control measures for reducing fugitive particulate matter that are contained in the BAAQMD CEQA Air Quality Guidelines.

### **Operational Period Emissions**

Operational air emissions from the project would be generated primarily from autos driven by future residents. Evaporative emissions from architectural coatings and maintenance products (classified as consumer products) are typical emissions from these types of uses. CalEEMod was used to estimate emissions from operation of the proposed project assuming full build-out.

#### CalEEMod Inputs

##### *Land Uses*

The project land uses were input to CalEEMod as described above for the construction period modeling.

##### *Model Year*

Emissions associated with vehicle travel depend on the year of analysis because emission control technology requirements are phased-in over time. Therefore, the earlier the year analyzed in the model, the higher the emission rates utilized by CalEEMod. With construction occurring in 2023 and 2024, the project's full occupancy would be in 2025. Emissions associated with build-out later than 2025 would be lower.

##### *Traffic Information*

CalEEMod allows the user to enter specific vehicle trip generation rates. Therefore, the project-specific daily trip generation rate and project vehicle miles traveled that were provided by the traffic consultant was entered into the model.<sup>9</sup> The project would generate 439 daily trips, assumed to be weekday trips. These are similar to the default trip rate assigned by CalEEMod so the trip rate was not changed. The Project is projected to result in VMT of 3,490 miles per day. The computed miles per trip was entered into CalEEMod. Since the projected VMT rate was used, all trip types were assigned as Primary trips (i.e., no passby or diverted trip corrections applied).

##### *Energy*

CalEEMod defaults for energy use were used, which include the 2019 Title 24 Building Standards. GHG emissions modeling includes those indirect emissions from electricity consumption. The electricity produced emission rate was based on CalEEMod's default emission factor for PG&E.

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<sup>9</sup> Fehr & Peers. 2022. Memo from Sarah Chan, P.E, TE and Valerie Tan, dated August 31. *Subject: Vehicle Miles Travelled (VMT) Analysis for the Deerwood Project in San Ramon, California*

The Project would be all electric, so natural gas usage was not assumed in the modeling. The additional electricity required to make up for natural gas usage was input to CalEEMod.

The Project would include solar panels on new buildings. Preliminary calculations indicate that rooftop solar panels would provide 50 percent of the electricity demand.

*Other Inputs*

Default model assumptions for emissions associated with solid waste generation use were applied to the project. All hearths were assumed to be fueled by natural gas per BAAQMD Regulation 6, Rule 3, which requires that new building construction not install a wood-burning device (effective as of November 1, 2016).<sup>10</sup> The Project would include 15 percent affordable housing.

*Existing Uses*

The project site currently is currently developed with a 51,000-sf office building that generates 553 daily vehicle trips that result in a daily VMT of 5,386 miles. The existing use was modeled with CalEEMod.

Summary of Computed Operational Period Emissions

Annual emissions were predicted using CalEEMod, based on the Mitigated Output that accounts for 15-percent affordable housing and the inclusion of solar panels. Both the daily emissions were estimated assuming 365 days of operation. Table 4 shows net average daily emissions of ROG, NO<sub>x</sub>, total PM<sub>10</sub>, and total PM<sub>2.5</sub> during operation of the project. The operational period emissions would not exceed the BAAQMD significance thresholds.

**Table 4. Operational Period Emissions**

<b>Scenario</b>	<b>ROG</b>	<b>NO<sub>x</sub></b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>
Existing Emissions ( <i>tons/year</i> )	0.45 tons	0.32 tons	0.56 tons	0.15 tons
2025 Project Operational Emissions ( <i>tons/year</i> )	0.86 tons	0.24 tons	0.51 tons	0.16 tons
Net New Emissions ( <i>tons/year</i> )	+0.41 tons	-0.08 tons	-0.05 tons	-0.01 tons
<i>BAAQMD Thresholds (tons /year)</i>	<i>10 tons</i>	<i>10 tons</i>	<i>15 tons</i>	<i>10 tons</i>
<b><i>Exceed Thresholds?</i></b>	No	No	No	No
Average Daily Emissions ( <i>lbs./day</i> ) <sup>1</sup>	+2.3 lbs.	-0.4 lbs.	-0.2 lbs.	-0.11 lbs.
<i>BAAQMD Thresholds (lbs./day)</i>	<i>54 lbs.</i>	<i>54 lbs.</i>	<i>82 lbs.</i>	<i>54 lbs.</i>
<b><i>Exceed Threshold?</i></b>	No	No	No	No

Notes: <sup>1</sup> Assumes 365-day operation.

<sup>10</sup> Bay Area Air Quality Management District, [https://www.baaqmd.gov/~media/dotgov/files/rules/regulation-6-rule-3/documents/20191120\\_r0603\\_final-pdf.pdf?la=en](https://www.baaqmd.gov/~media/dotgov/files/rules/regulation-6-rule-3/documents/20191120_r0603_final-pdf.pdf?la=en)

**Impact AIR-3: Expose sensitive receptors to substantial pollutant concentrations?**

Project impacts related to increased community risk occur by introducing a new source of TAC emissions with the potential to adversely affect existing sensitive receptors in the project vicinity. This project would introduce new sources of TACs during construction (i.e., on-site construction and truck hauling emissions). Operation of the project site would result in negligible emissions upon sensitive receptors.

The Project would eliminate the existing office building which includes a diesel generator that is listed by BAAQMD as a stationary source that has poses a health risk impacts. According to BAAQMD, Plant 24872, located at 2481 Deerwood Drive, has screening risk levels at the site boundary that include cancer risk of 62.8 chances per million, annual PM<sub>2.5</sub> concentration of 0.08 µg/m<sup>3</sup>, and a chronic hazard index of 0.08. Refined modeling of this source which would include actual operation hours would likely reveal lower impacts.

Project construction activity would generate dust and equipment exhaust that would affect nearby sensitive receptors. Construction equipment and associated truck traffic would likely be comprised mostly of diesel-powered equipment. Diesel particulate matter or DPM emitted by this equipment is a TAC that can result in health risk impacts to sensitive receptors, especially residents in close proximity with infants or small children that could be present most of the construction period. The use of cleaner emitting new construction equipment or alternatively powered equipment would greatly reduce the emissions such that health risks would be less-than-significant. Without conditions on the type of equipment used, health risk impacts could potentially be significant.

Operation of the project would not include the installation of any emergency generators or other equipment powered by diesel engines, which would produce TAC and air pollutant emissions. The project would generate some traffic, consisting of light-duty vehicles. Emission rates of TACs associated with the approximately 439 new daily vehicle trips compared to the 553 trips produced by the existing office. Therefore, project operation is not considered a local source of substantial TACs or PM<sub>2.5</sub> emissions.

**Mitigation Measure AQ-2: Use construction equipment that has low diesel particulate matter exhaust emissions.**

1. All construction equipment larger than 25 horsepower used at the site for more than two continuous days or 20 hours total shall meet U.S. EPA Tier 4 emission standards for PM (PM<sub>10</sub> and PM<sub>2.5</sub>), if feasible, otherwise,
  - a. If use of Tier 4 equipment is not available, alternatively use equipment that meets U.S. EPA emission standards for Tier 3 engines and include particulate matter emissions control equivalent to CARB Level 3 verifiable diesel emission control devices that altogether achieve an 75 percent reduction in particulate matter exhaust in comparison to uncontrolled equipment; alternatively (or in combination).
  - b. Use of electrical or non-diesel fueled equipment.

2. Alternatively, the applicant may develop another construction operations plan demonstrating that the construction equipment used on-site would achieve a reduction in construction diesel particulate matter emissions by 75 percent or greater. Elements of the plan could include a combination of some of the following measures:
  - Implementation of No. 1 above to use Tier 4 or alternatively fueled equipment,
  - Installation of electric power lines during early construction phases to avoid use of diesel generators and compressors,
  - Use of electrically-powered equipment,
  - Forklifts and aerial lifts used for exterior and interior building construction shall be electric or propane/natural gas powered,
  - Change in construction build-out plans to lengthen phases, and
  - Implementation of different building techniques that result in less diesel equipment usage.

Such a construction operations plan would be subject to review by an air quality expert and approved by the City prior to construction.

#### *Effectiveness of Mitigation Measure AQ-1 and AQ-2*

The use of diesel construction equipment that meets Tier 4 standards reduces diesel particulate emissions by over 90 percent compared to other construction equipment. CalEEMod was used to compute emissions associated with this mitigation measure assuming that all equipment met U.S. EPA Tier 4 Interim engine standards and BAAQMD best management practices for construction were included. With these implemented, the project's construction TAC emissions would be reduced by 75 percent and PM<sub>2.5</sub> emissions would be reduced by about 64 percent (total of both exhaust and fugitive emissions). As a result, the project's construction risks would not be expected to exceed the BAAQMD thresholds.

#### **Impact AIR-4: Create objectionable odors affecting a substantial number of people?**

The project would generate localized emissions of diesel exhaust during construction equipment operation and truck activity. These emissions may be noticeable from time to time by adjacent receptors. However, they would be localized and are not likely to adversely affect people off-site by resulting in confirmed odor complaints. The project would not include any sources of significant odors that would cause complaints from surrounding uses.

## Non-CEQA: On-Site Community Risk Assessment for TAC Sources - New Project Residences

The exposure of new sensitive receptors to nearby air pollution and TAC sources is addressed per General Plan policies:<sup>11</sup>

### Guiding Policies – Hazardous Emissions and Public Health

12.6-G-1 Minimize exposure of the public to hazardous air pollutant emissions, particulates, and noxious odors from freeways, major arterial roadways, commercial and industrial uses with substantial truck trips, and other uses that produce toxic emissions through the use and handling of fuels and solvents.

### Implementing Policies

12.6-I-1 Locate sources of hazardous emissions at appropriate distances from existing and planned sensitive land uses in order to minimize or avoid potential health risks to people that might result from hazardous air pollutant emissions. Locate residential development projects and projects categorized as sensitive receptors at adequate distances from existing and potential sources of hazardous emissions.

A review of the area indicates that there are no major sources of TACs near the Project site. Interstate 680 traffic is located over one mile east of the site. Crow Canyon is the only roadway with over 10,000 average daily trips; however, it is located almost 400 feet from the site and is not a source that would result in health risk impacts at the Project site that would exceed BAAQMD thresholds. Permitted stationary sources of air pollution near the project site were identified using BAAQMD's *Permitted Stationary Sources 2020* GIS website.<sup>12</sup> This mapping tool identifies the location of nearby stationary sources and their estimated risk and hazard impacts. Six stationary sources were identified within 1,000 feet. One source is the Project site that currently includes a diesel-powered generator that would be removed with the Project (see discussion above). All other sources would have negligible impacts upon the Project site.

New multi-family homes constructed in California are required to meet 2019 or newer Title 24 Building Code requirements. Part 6 of these standards include the requirement for MERV 13 or equivalent filters for new heating ventilation air conditioning (HVAC) ventilation systems. These systems are designed to improve indoor air quality and protect the HVAC system. MERV13 filtration is effective in reducing TAC and particulate matter air pollution. A properly installed and operated ventilation system with MERV13 filters is expected to achieve an 80-percent reduction between inside and outside air.<sup>13</sup>

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<sup>11</sup> We note that to the extent this analysis considers *existing* air quality issues in relation to the impact on *future residents* of the Project, it does so for informational purposes only pursuant to the judicial decisions in *CBIA v. BAAQMD* (2015) 62 Cal.4th 369, 386 and *Ballona Wetlands Land Trust v. City of Los Angeles* (2011) 201 Cal.App.4th 455, 473, which confirm that the impacts of the existing environment on a project are excluded from CEQA.

<sup>12</sup> BAAQMD, *Stationary Source Screening Map*, 2022. Web: <https://baaqmd.maps.arcgis.com/apps/webappviewer/index.html?id=845658c19eae4594b9f4b805fb9d89a3>

<sup>13</sup> Bay Area Air Quality Management District (2016). Appendix B: Best Practices to Reduce Exposure to Local Air Pollution, *Planning Healthy Places A Guidebook for Addressing Local Sources of Air Pollutants in Community*



## GREENHOUSE GAS EMISSIONS

### Setting

Gases that trap heat in the atmosphere, GHGs, regulate the earth's temperature. This phenomenon, known as the greenhouse effect, is responsible for maintaining a habitable climate. The most common GHGs are carbon dioxide (CO<sub>2</sub>) and water vapor but there are also several others, most importantly methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF<sub>6</sub>). These are released into the earth's atmosphere through a variety of natural processes and human activities. Sources of GHGs are generally as follows:

- CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O are byproducts of fossil fuel combustion.
- N<sub>2</sub>O is associated with agricultural operations such as fertilization of crops.
- CH<sub>4</sub> is commonly created by off-gassing from agricultural practices (e.g., keeping livestock) and landfill operations.
- Chlorofluorocarbons (CFCs) were widely used as refrigerants, propellants, and cleaning solvents but their production has been stopped by international treaty.
- HFCs are now used as a substitute for CFCs in refrigeration and cooling.
- PFCs and sulfur hexafluoride emissions are commonly created by industries such as aluminum production and semi-conductor manufacturing.

Each GHG has its own potency and effect upon the earth's energy balance. This is expressed in terms of a global warming potential (GWP), with CO<sub>2</sub> being assigned a value of 1 and sulfur hexafluoride being several orders of magnitude stronger. In GHG emission inventories, the weight of each gas is multiplied by its GWP and is measured in units of CO<sub>2</sub> equivalents (CO<sub>2</sub>e).

An expanding body of scientific research supports the theory that global climate change is currently affecting changes in weather patterns, average sea level, ocean acidification, chemical reaction rates, and precipitation rates, and that it will increasingly do so in the future. The climate and several naturally occurring resources within California are adversely affected by the global warming trend. Increased precipitation and sea level rise will increase coastal flooding, saltwater intrusion, and degradation of wetlands. Mass migration and/or loss of plant and animal species could also occur. Potential effects of global climate change that could adversely affect human health include more extreme heat waves and heat-related stress; an increase in climate-sensitive diseases; more frequent and intense natural disasters such as flooding, hurricanes and drought; and increased levels of air pollution.

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*Planning* (p. 38). [http://www.baaqmd.gov/~media/files/planning-and-research/planning-healthy-places/php\\_may20\\_2016-pdf.pdf?la=en](http://www.baaqmd.gov/~media/files/planning-and-research/planning-healthy-places/php_may20_2016-pdf.pdf?la=en)

## Federal and Statewide GHG Emissions

The U.S. EPA reported that in 2022, total gross nationwide GHG emissions were 5,215.6 million metric tons (MMT) carbon dioxide equivalent (CO<sub>2</sub>e).<sup>14</sup> These emissions were lower than peak levels of 7,416 MMT that were emitted in 2007. CARB updates the statewide GHG emission inventory on an annual basis where the latest inventory includes 2000 through 2019 emissions.<sup>15</sup> In 2019, GHG emissions from statewide emitting activities were 418.2 MMT CO<sub>2</sub>e. The 2019 emissions have decreased by 30 percent since peak levels in 2007 and are 7.2 MMT CO<sub>2</sub>e lower than 2018 emissions level and almost 13 MMT CO<sub>2</sub>e below the State's 2020 GHG limit of 431 MMT CO<sub>2</sub>e. Per capita GHG emissions in California have dropped from a 2001 peak of 14.0 MT CO<sub>2</sub>e per person to 10.5 MT CO<sub>2</sub>e per person in 2019.

## Recent Regulatory Actions for GHG Emissions

### *Executive Order S-3-05 – California GHG Reduction Targets*

Executive Order (EO) S-3-05 was signed by Governor Arnold Schwarzenegger in 2005 to set GHG emission reduction targets for California. The three targets established by this EO are as follows: (1) reduce California's GHG emissions to 2000 levels by 2010, (2) reduce California's GHG emissions to 1990 levels by 2020, and (3) reduce California's GHG emissions by 80 percent below 1990 levels by 2050.

### *Assembly Bill 32 – California Global Warming Solutions Act (2006)*

Assembly Bill (AB) 32, the Global Warming Solutions Act of 2006, codified the State's GHG emissions target by directing CARB to reduce the State's global warming emissions to 1990 levels by 2020. AB 32 was signed and passed into law by Governor Schwarzenegger on September 27, 2006. Since that time, the CARB, CEC, California Public Utilities Commission (CPUC), and Building Standards Commission have all been developing regulations that will help meet the goals of AB 32 and Executive Order S-3-05, which has a target of reducing GHG emissions 80 percent below 1990 levels.

A Scoping Plan for AB 32 was adopted by CARB in December 2008. It contains the State's main strategies to reduce GHGs from business-as-usual emissions projected in 2020 back down to 1990 levels. Business-as-usual (BAU) is the projected emissions in 2020, including increases in emissions caused by growth, without any GHG reduction measures. The Scoping Plan has a range of GHG reduction actions, including direct regulations, alternative compliance mechanisms, monetary and non-monetary incentives, voluntary actions, and market-based mechanisms such as a cap-and-trade system.

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<sup>14</sup> United States Environmental Protection Agency, 2022. *Draft Inventory of U.S. Greenhouse Gas Emissions and Sinks 1990-2020*. February. Web: <https://www.epa.gov/ghgemissions/inventory-us-greenhouse-gas-emissions-and-sinks>

<sup>15</sup> CARB. 2021. *California Greenhouse Gas Emission for 2000 to 2019*. Web: [https://ww3.arb.ca.gov/cc/inventory/pubs/reports/2000\\_2019/ghg\\_inventory\\_trends\\_00-19.pdf](https://ww3.arb.ca.gov/cc/inventory/pubs/reports/2000_2019/ghg_inventory_trends_00-19.pdf)

As directed by AB 32, CARB has also approved a statewide GHG emissions limit. On December 6, 2007, CARB staff resolved an amount of 427 million metric tons (MMT) of CO<sub>2</sub>e as the total statewide GHG 1990 emissions level and 2020 emissions limit. The limit is a cumulative statewide limit, not a sector- or facility-specific limit. CARB updated the future 2020 BAU annual emissions forecast, in light of the economic downturn, to 545 MMT of CO<sub>2</sub>e. Two GHG emissions reduction measures currently enacted that were not previously included in the 2008 Scoping Plan baseline inventory were included, further reducing the baseline inventory to 507 MMT of CO<sub>2</sub>e. Thus, an estimated reduction of 80 MMT of CO<sub>2</sub>e is necessary to reduce statewide emissions to meet the AB 32 target by 2020.

#### *Executive Order B-30-15 & Senate Bill 32 GHG Reduction Targets – 2030 GHG Reduction Target*

In April 2015, Governor Brown signed EO B-30-15, which extended the goals of AB 32, setting a GHG emissions target at 40 percent of 1990 levels by 2030. On September 8, 2016, Governor Brown signed Senate Bill (SB) 32, which legislatively established the GHG reduction target of 40 percent of 1990 levels by 2030. In November 2017, CARB issued *California's 2017 Climate Change Scoping Plan*.<sup>16</sup> While the State is on track to exceed the AB 32 scoping plan 2020 targets, this plan is an update to reflect the enacted SB 32 reduction target.

SB 32 was passed in 2016, which codified a 2030 GHG emissions reduction target of 40 percent below 1990 levels. CARB has drafted a 2022 Scoping Plan Update to reflect the 2030 target set by Executive Order B-30-15 and codified by SB 32. The 2022 draft plan:

- Identifies a path to keep California on track to meet its SB 32 GHG reduction target of at least 40 percent below 1990 emissions by 2030.
- Identifies a technologically feasible, cost-effective path to achieve carbon neutrality by 2045 or earlier.
- Focuses on strategies for reducing California's dependency on petroleum to provide consumers with clean energy options that address climate change, improve air quality, and support economic growth and clean sector jobs.
- Integrates equity and protecting California's most impacted communities as a driving principle.
- Incorporates the contribution of natural and working lands to the state's GHG emissions, as well as its role in achieving carbon neutrality.
- Relies on the most up to date science, including the need to deploy all viable tools, including carbon capture and sequestration as well as direct air capture.
- Evaluates multiple options for achieving our GHG and carbon neutrality targets, as well as the public health benefits and economic impacts associated with each.

The draft Scoping Plan Update was published on May 10, 2022 and, once final, will lay out how the state can get to carbon neutrality by 2045 or earlier. It is also the first Scoping Plan that adds

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<sup>16</sup> California Air Resource Board, 2017. *California's 2017 Climate Change Scoping Plan: The Strategy for Achieving California's 2030 Greenhouse Gas Targets*. November. Web: [https://ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/scoping\\_plan\\_2017.pdf](https://ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/scoping_plan_2017.pdf)

carbon neutrality as a science-based guide and touchstone beyond statutorily established emission reduction targets.<sup>17</sup>

The mid-term 2030 target is considered critical by CARB on the path to obtaining an even deeper GHG emissions target of 80 percent below 1990 levels by 2050, as directed in Executive Order S-3-05. The 2022 Draft Scoping Plan outlines the suite of policy measures, regulations, planning efforts, and investments in clean technologies and infrastructure, providing a blueprint to continue driving down GHG emissions and to not only obtain the statewide goals, but cost-effectively achieve carbon-neutrality by 2045 or earlier. In the draft 2022 Scoping Plan, CARB recommends:

- VMT per capita reduced 12% below 2019 levels by 2030 and 22% below 2019 levels by 2045.
- 100% of Light-duty vehicle sales are zero emissions vehicles (ZEV) by 2035.
- 100% of medium duty/heavy duty vehicle sales are ZEV by 2040.
- 100% of passenger and other locomotive sales are ZEV by 2030.
- 100% of line haul locomotive sales are ZEV by 2035.
- All electric appliances in new residential and commercial building beginning 2026 (residential) and 2029 (commercial).
- 80% of residential appliance sales are electric by 2030 and 100% of residential appliance sales are electric by 2035.
- 80% of commercial appliance sales are electric by 2030 and 100% of commercial appliance sales are electric by 2045.

#### *Executive Order B-55-18 – Carbon Neutrality*

In 2018, a new statewide goal was established to achieve carbon neutrality as soon as possible, but no later than 2045, and to maintain net negative emissions thereafter. CARB and other relevant state agencies are tasked with establishing sequestration targets and create policies/programs that would meet this goal.

#### *Senate Bill 375 – California's Regional Transportation and Land Use Planning Efforts (2008)*

California enacted legislation (SB 375) to expand the efforts of AB 32 by controlling indirect GHG emissions caused by urban sprawl. SB 375 provides incentives for local governments and applicants to implement new conscientiously planned growth patterns. This includes incentives for creating attractive, walkable, and sustainable communities and revitalizing existing communities. The legislation also allows applicants to bypass certain environmental reviews under CEQA if they build projects consistent with the new sustainable community strategies. Development of more alternative transportation options that would reduce vehicle trips and miles traveled, along with traffic congestion, would be encouraged. SB 375 enhances CARB's ability to reach the AB 32 goals by directing the agency in developing regional GHG emission reduction targets to be achieved from the transportation sector for 2020 and 2035. CARB works with the metropolitan planning organizations (e.g. Association of Bay Area Governments [ABAG] and Metropolitan Transportation Commission [MTC]) to align their regional transportation, housing, and land use

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<sup>17</sup> <https://ww2.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan/2022-scoping-plan-documents>

plans to reduce vehicle miles traveled and demonstrate the region's ability to attain its GHG reduction targets. A similar process is used to reduce transportation emissions of ozone precursor pollutants in the Bay Area.

#### *Senate Bill 350 - Renewable Portfolio Standards*

In September 2015, the California Legislature passed SB 350, which increases the states Renewables Portfolio Standard (RPS) for content of electrical generation from the 33 percent target for 2020 to a 50 percent renewables target by 2030.

#### *Senate Bill 100 – Current Renewable Portfolio Standards*

In September 2018, SB 100 was signed by Governor Brown to revise California's RPS program goals, furthering California's focus on using renewable energy and carbon-free power sources for its energy needs. The bill would require all California utilities to supply a specific percentage of their retail sales from renewable resources by certain target years. By December 31, 2024, 44 percent of the retail sales would need to be from renewable energy sources, by December 31, 2026 the target would be 40 percent, by December 31, 2017 the target would be 52 percent, and by December 31, 2030 the target would be 60 percent. By December 31, 2045, all California utilities would be required to supply retail electricity that is 100 percent carbon-free and sourced from eligible renewable energy resource to all California end-use customers.

#### *California Building Standards Code – Title 24 Part 11 & Part 6*

The California Green Building Standards Code (CALGreen Code) is part of the California Building Standards Code under Title 24, Part 11.<sup>18</sup> The CALGreen Code encourages sustainable construction standards that involve planning/design, energy efficiency, water efficiency resource efficiency, and environmental quality. These green building standard codes are mandatory statewide and are applicable to residential and non-residential developments. The most recent CALGreen Code (2019 California Building Standard Code) was effective as of January 1, 2020.

The California Building Energy Efficiency Standards (California Energy Code) is under Title 24, Part 6 and is overseen by the California Energy Commission (CEC). This code includes design requirements to conserve energy in new residential and non-residential developments, while being cost effective for homeowners. This Energy Code is enforced and verified by cities during the planning and building permit process. The current energy efficiency standards (2019 Energy Code) replaced the 2016 Energy Code as of January 1, 2020. Under the 2019 standards, single-family homes are predicted to be 53 percent more efficient than homes built under the 2016 standard due more stringent energy-efficiency standards and mandatory installation of solar photovoltaic systems. For nonresidential developments, it is predicted that these buildings will use 30 percent less energy due to lightening upgrades.<sup>19</sup>

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<sup>18</sup> See: <https://www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen#:~:text=CALGreen%20is%20the%20first%2Din,to%201990%20levels%20by%202020.>

<sup>19</sup> See: [https://www.energy.ca.gov/sites/default/files/2020-03/Title\\_24\\_2019\\_Building\\_Standards\\_FAQ\\_ada.pdf](https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf)

CEC studies have identified the most aggressive electrification scenario as putting the building sector on track to reach the carbon neutrality goal by 2045.<sup>20</sup> Installing new natural gas infrastructure in new buildings will interfere with this goal. To meet the State’s goal, communities have been adopting “Reach” codes that prohibit natural gas connections in new and remodeled buildings.

Requirements for electric vehicle (EV) charging infrastructure are set forth in Title 24 of the California Code of Regulations and are regularly updated on a 3-year cycle. The CALGreen standards consist of a set of mandatory standards required for new development, as well as two more voluntary standards known as Tier 1 and Tier 2. The CalGreen standards have recently been updated (2022 version) to require deployment of additional EV chargers in various building types, including multifamily residential and nonresidential land uses. They include requirements for both EV capable parking spaces and the installation of Level 2 EV supply equipment for multifamily residential and nonresidential buildings. The 2022 CALGreen standards include requirements for both EV readiness and the actual installation of EV chargers. The 2022 CALGreen standards include both mandatory requirements and more aggressive voluntary Tier 1 and Tier 2 provisions. Providing EV charging infrastructure that meets current CALGreen requirements will not be sufficient to power the anticipated more extensive level of EV penetration in the future that is needed to meet SB 30 climate goals.

### *SB 743 Transportation Impacts*

Senate Bill 743 required lead agencies to abandon the old “level of service” metric for evaluating a project’s transportation impacts, which was based solely on the amount of delay experienced by motor vehicles. In response, the Governor’s Office of Planning and Research (OPR) developed a VMT metric that considered other factors such as reducing GHG emissions and developing multimodal transportation<sup>21</sup>. A VMT-per-capita metric was adopted into the CEQA Guidelines Section 15064.3 in November 2017. Given current baseline per-capita VMT levels computed by CARB in the 2030 Scoping Plan of 22.24 miles per day for light-duty vehicles and 24.61 miles per day for all vehicle types, the reductions needed to achieve the 2050 climate goal are 16.8 percent for light-duty vehicles and 14.3 percent for all vehicle types combined. Based on this analysis (as well as other factors), OPR recommended using a 15-percent reduction in per capita VMT as an appropriate threshold of significance for evaluating transportation impacts.

### *Advanced Clean Cars*

The Advanced Clean Cars Program, originally adopted by CARB in 2012, was designed to bring together CARB’s traditional passenger vehicle requirements to meet federal air quality standards and also support California’s AB 32 goals to develop and implement programs to reduce GHG emissions back down to 1990 levels by 2020, a goal achieved in 2016 as a result of numerous emissions reduction programs.

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<sup>20</sup> California Energy Commission. 2021. *Final Commission Report: California Building Decarbonization Assessment*. Publication Number CEC-400-2021-006-CMF. August

<sup>21</sup> Governor’s Office of Planning and Research. 2018. *Technical Advisory on Evaluating Transportation Impacts in CEQA*. December.

This recent rule, *Advanced Clean Cars II (ACC II)* is phase two of the original rule. ACC II establishes a year-by-year process, starting in 2026, so all new cars and light trucks sold in California will be zero-emission vehicles by 2035, including plug-in hybrid electric vehicles. The regulation codifies the light-duty vehicle goals set out in Governor Newsom’s Executive Order N-79-20. Currently, 16 percent of new light-duty vehicles sold in California are zero emissions or plug-in hybrids. By 2030, 68 percent of new vehicles sold in California would be zero emissions and 100 percent by 2035.

### City of San Ramon Climate Action Plan

The San Ramon Climate Action Plan (CAP) was adopted by the City on August 23, 2011 and it is the City’s primary implementation strategy for greenhouse gas policies to reduce emissions 15% below 2008 levels by 2020.<sup>22</sup> The CAP has been defined by BAAQMD as a “Qualified Greenhouse Gas Reduction Strategy.” As a qualified document, the San Ramon CAP meets the BAAQMD Greenhouse Gas Reduction Strategies requirements and has identified implementation strategies that will help the city GHG reduction goals up to 2020. As such, it serves as a guidance document for local decision makers.

The CAP strategy is primarily based upon the land use, transportation, and conservation policies that are part of the General Plan 2035. The CAP demonstrates reductions in GHG emissions through land use planning (including density choices), reduction in vehicle miles traveled, and energy conservation measures such as increased energy efficiency for buildings, more efficient water use and recycling programs. However, the CAP does not have a Compliance Checklist or a specific metric ton GHG threshold for project-level construction or operation. Therefore, the BAAQMD’s CEQA Air Quality Guideline’s thresholds were used to evaluate GHG emissions.

### BAAQMD GHG Significance Thresholds

On April 20, 2022, BAAQMD adopted new thresholds of significance for operational GHG emissions from land use projects for projects beginning the CEQA process. The following framework is how BAAQMD will determine GHG significance moving forward.<sup>23</sup> Note BAAQMD intends that the thresholds apply to projects that begin the CEQA process after adoption of the thresholds, unless otherwise directed by the lead agency. The new thresholds of significance are:

- A. Projects must include, at a minimum, the following project design elements:
  - a. Buildings
    - i. The project will not include natural gas appliances or natural gas plumbing (in both residential and non-residential development).

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<sup>22</sup> City of San Ramon, California (2011). *City of San Ramon Climate Action Plan*. [http://www.ci.san-ramon.ca.us/UserFiles/Servers/Server\\_10826046/File/Our%20City/Departments/Community%20Development/Planning/General%20Plan/Climate%20Action%20Plan/adoptedcap.pdf](http://www.ci.san-ramon.ca.us/UserFiles/Servers/Server_10826046/File/Our%20City/Departments/Community%20Development/Planning/General%20Plan/Climate%20Action%20Plan/adoptedcap.pdf)

<sup>23</sup> Justification Report: BAAQMD CEQA Thresholds for Evaluating the Significance of Climate Impacts from Land Use Project and Plans. Web: [https://www.baaqmd.gov/~/\\_media/files/planning-and-research/ceqa/ceqa-thresholds-2022/justification-report-pdf.pdf?la=en](https://www.baaqmd.gov/~/_media/files/planning-and-research/ceqa/ceqa-thresholds-2022/justification-report-pdf.pdf?la=en)

- ii. The project will not result in any wasteful, inefficient, or unnecessary energy usage as determined by the analysis required under CEQA Section 21100(b)(3) and Section 15126.2(b) of the State CEQA Guidelines.
  - b. Transportation
    - i. Achieve a reduction in project-generated vehicle miles traveled (VMT) below the regional average consistent with the current version of the California Climate Change Scoping Plan (currently 15 percent) or meet a locally adopted Senate Bill 743 VMT target, reflecting the recommendations provided in the Governor’s Office of Planning and Research’s Technical Advisory on Evaluating Transportation Impacts in CEQA:
      - 1. Residential Projects: 15 percent (16.8 percent in Petaluma) below the existing VMT per capita
      - 2. Office Projects: 15 percent (16.8 percent in Petaluma) below the existing VMT per employee
      - 3. Retail Projects: no net increase in existing VMT
    - ii. Achieve compliance with off-street electric vehicle requirements in the most recently adopted version of CALGreen Tier 2.
- B. Be consistent with a local GHG reduction strategy that meets the criteria under State CEQA Guidelines Section 15183.5(b).

Any new land use project would have to include either section A or B from the above list, not both, to be considered in compliance with BAAQMD’s GHG thresholds of significance.

**Impact GHG-1:      Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?**

GHG emissions associated with development of the proposed project would occur over the short-term from construction activities, consisting primarily of emissions from equipment exhaust and worker and vendor trips. There would also be long-term operational emissions associated with vehicular traffic within the project vicinity, energy and water usage, and solid waste disposal. Emissions for the proposed project are discussed below and were analyzed using the methodology recommended in the BAAQMD CEQA Air Quality Guidelines.

CalEEMod Modeling

CalEEMod was used to predict GHG emissions from operation of the site assuming full build-out of the project. The project land use types and size and other project-specific information were input to the model, as described above within the construction period emissions. CalEEMod output is included in *Attachment 1*.

Construction GHG Emissions

GHG emissions associated with construction were computed at 322 MT of CO<sub>2</sub>e for the total construction period. These are the emissions from on-site operation of construction equipment, vendor and hauling truck trips, and worker trips. Neither the City nor BAAQMD have an adopted



threshold of significance for construction related GHG emissions, though BAAQMD recommends quantifying emissions and disclosing that GHG emissions would occur during construction. BAAQMD also encourages the incorporation of best management practices to reduce GHG emissions during construction where feasible and applicable.

Operational GHG Emissions

The CalEEMod model, along with the project vehicle trip travel rates, was used to estimate daily emissions associated with operation of the fully-developed site under the proposed project. Emissions from the existing use were also modeled. As shown in Table 5, annual GHG emissions resulting from operation of the proposed project are predicted to be 452 MT of CO<sub>2e</sub> in 2025. The existing use would have 642 MT, such that the net change would be 190 MT less than the existing conditions.

**Table 5. Annual Project GHG Emissions (CO<sub>2e</sub>) in Metric Tons**

Source Category	Existing Use	Proposed Project in 2025
Area	<0.01	5
Energy Consumption	126	28
Mobile	473	397
Solid Waste Generation	24	14
Water Usage	18	8
Total (MT CO <sub>2e</sub> /year)	642	452
Net Total (MT CO <sub>2e</sub> /year)		-190

There are no quantified thresholds for GHG emissions adopted by the City or BAAQMD for evaluation of project GHG emissions. BAAQMD in their latest adopted GHG thresholds recommend that the significance of project GHG emissions be evaluated based on consistency with an adopted GHG reduction plan or meet design elements that are critical in reducing GHG emissions.

The Project meets the requirements for qualitative Project thresholds identified above by BAAQMD. The proposed buildings would be constructed in conformance with CALGreen and the Title 24 Building Code, which requires high-efficiency water fixtures, water-efficient irrigation systems, and compliance with current energy efficacy standards. The Project includes rooftop solar panels to generate at least 50 percent of the expected electricity usage. To avoid interference with statewide GHG reduction measures identified in CARB’s Scoping Plan and SB 100 goals, the project would include the following standard requirements:

1. Avoid construction of new natural gas connections for the residential building,
  - Conforms – compliance with City Reach Code would prohibit natural gas infrastructure in new buildings. The Project proposes to be all electric.
2. Avoid wasteful or inefficient use of electricity,
  - Conforms – would meet CALGreen Building Standards Code requirements that are considered to be energy efficient.
3. Include electric vehicle (EV) charging infrastructure that meets current Building Code CALGreen Tier 2 compliance, and

- Conforms – project would include EV infrastructure at on-site parking spaces.
4. Reduce VMT per service population by 15 percent over regional average.
- Conforms – The traffic analysis found the existing office site is estimated to produce approximately 5,400 VMT, resulting in a VMT per service population of 35.2. The proposed Project is expected to generate 3,490 total VMT, resulting in 23.3 VMT per service population. Therefore, since the proposed Project is expected to generate fewer total VMT, the Project is estimated to result in no VMT impact.

**Impact GHG-2: Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?**

Proposed residential buildings would be constructed in conformance with CALGreen, the Title 24 Building Code, and the City’s General Plan. The Project is planned to be all electric powered. Building code and City requirements include high-efficiency water fixtures, water-efficient irrigation systems, and compliance with current energy efficacy standards. Therefore, with the incorporation of measures from these plans and CAP, the project is considered to have a less-than significant impacts on GHG emissions per BAAQMD GHG threshold B.

**Supporting Documentation**

*Attachment 1* includes the CalEEMod output for project construction and operational criteria air pollutant emissions.

**Attachment 1: CalEEMod Modeling Inputs and Outputs**



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

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblEnergyUse	NT24E	3,795.01	4,720.00
tblEnergyUse	NT24NG	3,155.00	0.00
tblEnergyUse	T24E	52.36	4,186.00
tblEnergyUse	T24NG	14,104.62	0.00
tblLandUse	LandUseSquareFeet	61,000.00	109,678.00
tblLandUse	LotAcreage	3.81	2.80
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	5.70	7.95
tblVehicleTrips	HS_TL	4.80	7.95
tblVehicleTrips	HW_TL	10.80	7.95
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										Mt/yr					
2023	0.0890	0.7291	0.7648	1.4600e-003	0.0394	0.0325	0.0719	0.0148	0.0308	0.0456	0.0000	124.9225	124.9225	0.0243	1.0300e-003	125.8370
2024	0.9051	1.0307	1.1964	2.3000e-003	0.0304	0.0426	0.0730	8.1600e-003	0.0408	0.0489	0.0000	194.3646	194.3646	0.0321	2.0400e-003	195.7755
Maximum	0.9051	1.0307	1.1964	2.3000e-003	0.0394	0.0426	0.0730	0.0148	0.0408	0.0489	0.0000	194.3646	194.3646	0.0321	2.0400e-003	195.7755

Mitigated Construction

Year	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										Mt/yr					
2023	0.0286	0.5486	0.8486	1.4600e-003	0.0211	6.6900e-003	0.0278	6.6100e-003	6.6800e-003	0.0133	0.0000	124.9223	124.9223	0.0243	1.0300e-003	125.8369
2024	0.8169	0.8945	1.3003	2.3000e-003	0.0304	0.0128	0.0432	8.1600e-003	0.0128	0.0210	0.0000	194.3644	194.3644	0.0321	2.0400e-003	195.7753
Maximum	0.8169	0.8945	1.3003	2.3000e-003	0.0304	0.0128	0.0432	8.1600e-003	0.0128	0.0210	0.0000	194.3644	194.3644	0.0321	2.0400e-003	195.7753

Percent Reduction	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
Percent Reduction	14.94	18.00	-9.57	0.00	26.25	73.99	50.99	35.59	72.75	63.73	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-12-2023	11-11-2023	0.5466	0.3709
2	11-12-2023	2-11-2024	0.5076	0.3954
3	2-12-2024	5-11-2024	0.4798	0.3860
4	5-12-2024	8-11-2024	0.6114	0.5274
5	8-12-2024	9-30-2024	0.6123	0.6111
		Highest	0.6123	0.6111

2.2 Overall Operational

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

**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	0.6599	8.4500e-003	0.6463	4.1000e-004		0.0302	0.0302		0.0302	0.0302	2.7810	1.8821	4.6631	5.1800e-003	1.8000e-004	4.8469
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	55.9152	55.9152	9.0500e-003	1.1000e-003	56.4681
Mobile	0.2005	0.2339	1.9570	4.2600e-003	0.4761	3.1300e-003	0.4792	0.1272	2.9200e-003	0.1301	0.0000	393.1874	393.1874	0.0237	0.0179	399.1225
Waste						0.0000	0.0000		0.0000	0.0000	5.6959	0.0000	5.6959	0.3366	0.0000	14.1114
Water						0.0000	0.0000		0.0000	0.0000	1.2609	2.8012	4.0621	0.1300	3.1100e-003	8.2387
<b>Total</b>	<b>0.8604</b>	<b>0.2424</b>	<b>2.6034</b>	<b>4.6700e-003</b>	<b>0.4761</b>	<b>0.0334</b>	<b>0.5094</b>	<b>0.1272</b>	<b>0.0331</b>	<b>0.1603</b>	<b>9.7378</b>	<b>453.7859</b>	<b>463.5237</b>	<b>0.5045</b>	<b>0.0223</b>	<b>482.7876</b>

**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	0.6599	8.4500e-003	0.6463	4.1000e-004		0.0302	0.0302		0.0302	0.0302	2.7810	1.8821	4.6631	5.1800e-003	1.8000e-004	4.8469
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	27.5862	27.5862	4.4600e-003	5.4000e-004	27.8590
Mobile	0.1999	0.2328	1.9479	4.2400e-003	0.4732	3.1100e-003	0.4763	0.1264	2.9000e-003	0.1293	0.0000	390.8894	390.8894	0.0236	0.0179	396.7978
Waste						0.0000	0.0000		0.0000	0.0000	5.6959	0.0000	5.6959	0.3366	0.0000	14.1114
Water						0.0000	0.0000		0.0000	0.0000	1.2609	2.8012	4.0621	0.1300	3.1100e-003	8.2387
<b>Total</b>	<b>0.8598</b>	<b>0.2413</b>	<b>2.5942</b>	<b>4.6500e-003</b>	<b>0.4732</b>	<b>0.0333</b>	<b>0.5066</b>	<b>0.1264</b>	<b>0.0331</b>	<b>0.1595</b>	<b>9.7378</b>	<b>423.1589</b>	<b>432.8967</b>	<b>0.4998</b>	<b>0.0217</b>	<b>451.8537</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>0.07</b>	<b>0.46</b>	<b>0.35</b>	<b>0.43</b>	<b>0.60</b>	<b>0.06</b>	<b>0.56</b>	<b>0.60</b>	<b>0.06</b>	<b>0.49</b>	<b>0.00</b>	<b>6.75</b>	<b>6.61</b>	<b>0.93</b>	<b>2.87</b>	<b>6.41</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	Demolition	Demolition	8/12/2023	9/8/2023	5	20	
2	Site Preparation	Site Preparation	9/9/2023	9/13/2023	5	3	
3	Grading	Grading	9/14/2023	9/21/2023	5	6	
4	Utilities	Trenching	9/14/2023	10/11/2023	5	20	
5	Building Construction	Building Construction	9/22/2023	7/25/2024	5	220	
6	Paving	Paving	7/26/2024	8/8/2024	5	10	
7	Architectural Coating	Architectural Coating	8/9/2024	8/22/2024	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 0

Residential Indoor: 222,098; Residential Outdoor: 74,033; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73

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

Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
utilities	Excavators	1	6.00	158	0.38
utilities	Tractors/Loaders/Backhoes	1	6.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	44.00	7.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
utilities	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0147	0.1432	0.1346	2.4000e-004		6.7700e-003	6.7700e-003		6.3300e-003	6.3300e-003	0.0000	21.0866	21.0866	5.3500e-003	0.0000	21.2202
<b>Total</b>	<b>0.0147</b>	<b>0.1432</b>	<b>0.1346</b>	<b>2.4000e-004</b>		<b>6.7700e-003</b>	<b>6.7700e-003</b>		<b>6.3300e-003</b>	<b>6.3300e-003</b>	<b>0.0000</b>	<b>21.0866</b>	<b>21.0866</b>	<b>5.3500e-003</b>	<b>0.0000</b>	<b>21.2202</b>

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

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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.3000e-004	2.9200e-003	1.0000e-005	1.0300e-003	1.0000e-005	1.0400e-003	2.7000e-004	0.0000	2.8000e-004	0.0000	0.8019	0.8019	2.0000e-005	2.0000e-005	0.8093
<b>Total</b>	<b>3.4000e-004</b>	<b>2.3000e-004</b>	<b>2.9200e-003</b>	<b>1.0000e-005</b>	<b>1.0300e-003</b>	<b>1.0000e-005</b>	<b>1.0400e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.8019</b>	<b>0.8019</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8093</b>

Mitigated Construction On-Site

Category	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
	tons/yr										MT/yr					
Off-Road	4.6300e-003	0.0854	0.1542	2.4000e-004		3.7000e-004	3.7000e-004	3.7000e-004	3.7000e-004	3.7000e-004	0.0000	21.0865	21.0865	5.3500e-003	0.0000	21.2202
<b>Total</b>	<b>4.6300e-003</b>	<b>0.0854</b>	<b>0.1542</b>	<b>2.4000e-004</b>		<b>3.7000e-004</b>	<b>3.7000e-004</b>	<b>3.7000e-004</b>	<b>3.7000e-004</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>21.0865</b>	<b>21.0865</b>	<b>5.3500e-003</b>	<b>0.0000</b>	<b>21.2202</b>

Mitigated Construction Off-Site

Category	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
	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.3000e-004	2.9200e-003	1.0000e-005	1.0300e-003	1.0000e-005	1.0400e-003	2.7000e-004	0.0000	2.8000e-004	0.0000	0.8019	0.8019	2.0000e-005	2.0000e-005	0.8093
<b>Total</b>	<b>3.4000e-004</b>	<b>2.3000e-004</b>	<b>2.9200e-003</b>	<b>1.0000e-005</b>	<b>1.0300e-003</b>	<b>1.0000e-005</b>	<b>1.0400e-003</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.8019</b>	<b>0.8019</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8093</b>

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

Category	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
	tons/yr										MT/yr					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9500e-003	0.0214	0.0147	4.0000e-005		8.1000e-004	8.1000e-004	7.5000e-004	7.5000e-004	7.5000e-004	0.0000	3.2317	3.2317	1.0500e-003	0.0000	3.2578
<b>Total</b>	<b>1.9500e-003</b>	<b>0.0214</b>	<b>0.0147</b>	<b>4.0000e-005</b>	<b>2.3900e-003</b>	<b>8.1000e-004</b>	<b>3.2000e-003</b>	<b>2.6000e-004</b>	<b>7.5000e-004</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>3.2317</b>	<b>3.2317</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.2578</b>

Unmitigated Construction Off-Site

Category	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
	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





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

Worker	8.0000e-005	5.0000e-005	6.7000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1851	0.1851	1.0000e-005	1.0000e-005	0.1868
<b>Total</b>	<b>8.0000e-005</b>	<b>5.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1851</b>	<b>0.1851</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.1868</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					4.7800e-003	0.0000	4.7800e-003	2.3100e-003	0.0000	2.3100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1100e-003	0.0191	0.0364	6.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	5.4312	5.4312	1.7600e-003	0.0000	5.4751
<b>Total</b>	<b>1.1100e-003</b>	<b>0.0191</b>	<b>0.0364</b>	<b>6.0000e-005</b>	<b>4.7800e-003</b>	<b>1.0000e-004</b>	<b>4.8800e-003</b>	<b>2.3100e-003</b>	<b>1.0000e-004</b>	<b>2.4100e-003</b>	<b>0.0000</b>	<b>5.4312</b>	<b>5.4312</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4751</b>

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	8.0000e-005	5.0000e-005	6.7000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1851	0.1851	1.0000e-005	1.0000e-005	0.1868
<b>Total</b>	<b>8.0000e-005</b>	<b>5.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1851</b>	<b>0.1851</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.1868</b>

3.5 utilites - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.5500e-003	0.0231	0.0412	6.0000e-005		1.1400e-003	1.1400e-003		1.0500e-003	1.0500e-003	0.0000	5.4546	5.4546	1.7600e-003	0.0000	5.4987
<b>Total</b>	<b>2.5500e-003</b>	<b>0.0231</b>	<b>0.0412</b>	<b>6.0000e-005</b>		<b>1.1400e-003</b>	<b>1.1400e-003</b>		<b>1.0500e-003</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>5.4546</b>	<b>5.4546</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4987</b>

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	1.3000e-004	9.0000e-005	1.1200e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3084	0.3084	1.0000e-005	1.0000e-005	0.3113
<b>Total</b>	<b>1.3000e-004</b>	<b>9.0000e-005</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.3084</b>	<b>0.3084</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3113</b>

Deerwood - Proposed - Contra Costa County, Annual

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.0000e-003	0.0272	0.0470	6.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	5.4546	5.4546	1.7600e-003	0.0000	5.4987
<b>Total</b>	<b>1.0000e-003</b>	<b>0.0272</b>	<b>0.0470</b>	<b>6.0000e-005</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>5.4546</b>	<b>5.4546</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4987</b>

**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	1.3000e-004	9.0000e-005	1.1200e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3084	0.3084	1.0000e-005	1.0000e-005	0.3113
<b>Total</b>	<b>1.3000e-004</b>	<b>9.0000e-005</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.3084</b>	<b>0.3084</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3113</b>

**3.6 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0608	0.4837	0.5046	8.9000e-004		0.0218	0.0218		0.0209	0.0209	0.0000	73.7342	73.7342	0.0139	0.0000	74.0828
<b>Total</b>	<b>0.0608</b>	<b>0.4837</b>	<b>0.5046</b>	<b>8.9000e-004</b>		<b>0.0218</b>	<b>0.0218</b>		<b>0.0209</b>	<b>0.0209</b>	<b>0.0000</b>	<b>73.7342</b>	<b>73.7342</b>	<b>0.0139</b>	<b>0.0000</b>	<b>74.0828</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8000e-004	0.0111	3.6200e-003	5.0000e-005	1.6400e-003	7.0000e-005	1.7000e-003	4.7000e-004	6.0000e-005	5.4000e-004	0.0000	4.9794	4.9794	1.0000e-004	7.2000e-004	5.1967
Worker	4.0900e-003	2.8000e-003	0.0350	1.1000e-004	0.0124	6.0000e-005	0.0125	3.2900e-003	6.0000e-005	3.3500e-003	0.0000	9.6354	9.6354	2.9000e-004	2.7000e-004	9.7238
<b>Total</b>	<b>4.3700e-003</b>	<b>0.0139</b>	<b>0.0387</b>	<b>1.6000e-004</b>	<b>0.0140</b>	<b>1.3000e-004</b>	<b>0.0142</b>	<b>3.7600e-003</b>	<b>1.2000e-004</b>	<b>3.8900e-003</b>	<b>0.0000</b>	<b>14.6148</b>	<b>14.6148</b>	<b>3.9000e-004</b>	<b>9.9000e-004</b>	<b>14.9204</b>

**Mitigated Construction On-Site**

Deerwood - Proposed - Contra Costa 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					
Off-Road	0.0163	0.3921	0.5470	8.9000e-004		5.9100e-003	5.9100e-003		5.9100e-003	5.9100e-003	0.0000	73.7341	73.7341	0.0139	0.0000	74.0828
<b>Total</b>	<b>0.0163</b>	<b>0.3921</b>	<b>0.5470</b>	<b>8.9000e-004</b>		<b>5.9100e-003</b>	<b>5.9100e-003</b>		<b>5.9100e-003</b>	<b>5.9100e-003</b>	<b>0.0000</b>	<b>73.7341</b>	<b>73.7341</b>	<b>0.0139</b>	<b>0.0000</b>	<b>74.0828</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8000e-004	0.0111	3.6200e-003	5.0000e-005	1.6400e-003	7.0000e-005	1.7000e-003	4.7000e-004	6.0000e-005	5.4000e-004	0.0000	4.9794	4.9794	1.0000e-004	7.2000e-004	5.1967
Worker	4.0900e-003	2.8000e-003	0.0350	1.1000e-004	0.0124	6.0000e-005	0.0125	3.2900e-003	6.0000e-005	3.3500e-003	0.0000	9.6354	9.6354	2.9000e-004	2.7000e-004	9.7238
<b>Total</b>	<b>4.3700e-003</b>	<b>0.0139</b>	<b>0.0387</b>	<b>1.6000e-004</b>	<b>0.0140</b>	<b>1.3000e-004</b>	<b>0.0142</b>	<b>3.7600e-003</b>	<b>1.2000e-004</b>	<b>3.8900e-003</b>	<b>0.0000</b>	<b>14.6148</b>	<b>14.6148</b>	<b>3.9000e-004</b>	<b>9.9000e-004</b>	<b>14.9204</b>

3.6 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	0.1190	0.9554	1.0505	1.8600e-003		0.0401	0.0401		0.0384	0.0384	0.0000	154.7469	154.7469	0.0288	0.0000	155.4674
<b>Total</b>	<b>0.1190</b>	<b>0.9554</b>	<b>1.0505</b>	<b>1.8600e-003</b>		<b>0.0401</b>	<b>0.0401</b>		<b>0.0384</b>	<b>0.0384</b>	<b>0.0000</b>	<b>154.7469</b>	<b>154.7469</b>	<b>0.0288</b>	<b>0.0000</b>	<b>155.4674</b>

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	5.8000e-004	0.0233	7.4200e-003	1.1000e-004	3.4300e-003	1.4000e-004	3.5700e-003	9.9000e-004	1.3000e-004	1.1200e-003	0.0000	10.3061	10.3061	2.1000e-004	1.4900e-003	10.7545
Worker	8.0000e-003	5.2400e-003	0.0685	2.1000e-004	0.0260	1.2000e-004	0.0261	6.9100e-003	1.1000e-004	7.0300e-003	0.0000	19.5615	19.5615	5.5000e-004	5.3000e-004	19.7339
<b>Total</b>	<b>8.5800e-003</b>	<b>0.0285</b>	<b>0.0759</b>	<b>3.2000e-004</b>	<b>0.0294</b>	<b>2.6000e-004</b>	<b>0.0297</b>	<b>7.9000e-003</b>	<b>2.4000e-004</b>	<b>8.1500e-003</b>	<b>0.0000</b>	<b>29.8677</b>	<b>29.8677</b>	<b>7.6000e-004</b>	<b>2.0200e-003</b>	<b>30.4884</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
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Deerwood - Proposed - Contra Costa County, Annual

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

Category	tons/yr										MT/yr					
	Off-Road	0.0342	0.8229	1.1479	1.8600e-003		0.0124	0.0124		0.0124	0.0124	0.0000	154.7467	154.7467	0.0288	0.0000
<b>Total</b>	<b>0.0342</b>	<b>0.8229</b>	<b>1.1479</b>	<b>1.8600e-003</b>		<b>0.0124</b>	<b>0.0124</b>		<b>0.0124</b>	<b>0.0124</b>	<b>0.0000</b>	<b>154.7467</b>	<b>154.7467</b>	<b>0.0288</b>	<b>0.0000</b>	<b>155.4672</b>

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	5.8000e-004	0.0233	7.4200e-003	1.1000e-004	3.4300e-003	1.4000e-004	3.5700e-003	9.9000e-004	1.3000e-004	1.1200e-003	0.0000	10.3061	10.3061	2.1000e-004	1.4900e-003	10.7545
Worker	8.0000e-003	5.2400e-003	0.0685	2.1000e-004	0.0260	1.2000e-004	0.0261	6.9100e-003	1.1000e-004	7.0300e-003	0.0000	19.5615	19.5615	5.5000e-004	5.3000e-004	19.7339
<b>Total</b>	<b>8.5800e-003</b>	<b>0.0285</b>	<b>0.0759</b>	<b>3.2000e-004</b>	<b>0.0294</b>	<b>2.6000e-004</b>	<b>0.0297</b>	<b>7.9000e-003</b>	<b>2.4000e-004</b>	<b>8.1500e-003</b>	<b>0.0000</b>	<b>29.8677</b>	<b>29.8677</b>	<b>7.6000e-004</b>	<b>2.0200e-003</b>	<b>30.4884</b>

3.7 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	4.2100e-003	0.0405	0.0585	9.0000e-005		1.9800e-003	1.9800e-003		1.8300e-003	1.8300e-003	0.0000	7.7574	7.7574	2.4600e-003	0.0000	7.8188
Paving	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>4.2100e-003</b>	<b>0.0405</b>	<b>0.0585</b>	<b>9.0000e-005</b>		<b>1.9800e-003</b>	<b>1.9800e-003</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>7.7574</b>	<b>7.7574</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.8188</b>

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	1.8000e-004	1.2000e-004	1.5700e-003	0.0000	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4476	0.4476	1.0000e-005	1.0000e-005	0.4515
<b>Total</b>	<b>1.8000e-004</b>	<b>1.2000e-004</b>	<b>1.5700e-003</b>	<b>0.0000</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.4476</b>	<b>0.4476</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4515</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	0.0376	0.0649	9.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	7.7573	7.7573	2.4600e-003	0.0000	7.8188

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

Paving	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>1.4800e-003</b>	<b>0.0376</b>	<b>0.0649</b>	<b>9.0000e-005</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>7.7573</b>	<b>7.7573</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.8188</b>

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	1.8000e-004	1.2000e-004	1.5700e-003	0.0000	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4476	0.4476	1.0000e-005	1.0000e-005	0.4515
<b>Total</b>	<b>1.8000e-004</b>	<b>1.2000e-004</b>	<b>1.5700e-003</b>	<b>0.0000</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.4476</b>	<b>0.4476</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4515</b>

3.8 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	0.7721					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0000e-004	6.0900e-003	9.0500e-003	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	1.2766	1.2766	7.0000e-005	0.0000	1.2784
<b>Total</b>	<b>0.7730</b>	<b>6.0900e-003</b>	<b>9.0500e-003</b>	<b>1.0000e-005</b>		<b>3.0000e-004</b>	<b>3.0000e-004</b>		<b>3.0000e-004</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.2784</b>

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	1.1000e-004	7.0000e-005	9.4000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2685	0.2685	1.0000e-005	1.0000e-005	0.2709
<b>Total</b>	<b>1.1000e-004</b>	<b>7.0000e-005</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2685</b>	<b>0.2685</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2709</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	0.7721					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	5.3000e-003	9.1600e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.2766	1.2766	7.0000e-005	0.0000	1.2784

Deerwood - Proposed - Contra Costa County, Annual

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

Total	0.7723	5.3000e-003	9.1600e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.2766	1.2766	7.0000e-005	0.0000	1.2784
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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	1.1000e-004	7.0000e-005	9.4000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2685	0.2685	1.0000e-005	1.0000e-005	0.2709
<b>Total</b>	<b>1.1000e-004</b>	<b>7.0000e-005</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2685</b>	<b>0.2685</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2709</b>

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Integrate Below Market Rate Housing

	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	0.1999	0.2328	1.9479	4.2400e-003	0.4732	3.1100e-003	0.4763	0.1264	2.9000e-003	0.1293	0.0000	390.8894	390.8894	0.0236	0.0179	396.7978
Unmitigated	0.2005	0.2339	1.9570	4.2600e-003	0.4761	3.1300e-003	0.4792	0.1272	2.9200e-003	0.1301	0.0000	393.1874	393.1874	0.0237	0.0179	399.1225

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Condo/Townhouse	446.52	496.54	383.08	1,286,592	1,278,872
<b>Total</b>	<b>446.52</b>	<b>496.54</b>	<b>383.08</b>	<b>1,286,592</b>	<b>1,278,872</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
Condo/Townhouse	7.95	7.95	7.95	31.00	15.00	54.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.565095	0.055953	0.178712	0.125673	0.023431	0.005517	0.007231	0.007159	0.000545	0.000331	0.025692	0.001390	0.003271

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

Install Energy Efficient Appliances

Deerwood - Proposed - Contra Costa 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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	27.5862	27.5862	4.4600e-003	5.4000e-004	27.8590
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	55.9152	55.9152	9.0500e-003	1.1000e-003	56.4681
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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					
Condo/Townhouse	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>0.0000</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>0.0000</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>

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					
Condo/Townhouse	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>0.0000</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>0.0000</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>

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	604333	55.9152	9.0500e-003	1.1000e-003	56.4681
<b>Total</b>		<b>55.9152</b>	<b>9.0500e-003</b>	<b>1.1000e-003</b>	<b>56.4681</b>

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			



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

Condo/Townhouse	298152	27.5862	4.4600e-003	5.4000e-004	27.8590
<b>Total</b>		<b>27.5862</b>	<b>4.4600e-003</b>	<b>5.4000e-004</b>	<b>27.8590</b>

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6599	8.4500e-003	0.6463	4.1000e-004		0.0302	0.0302		0.0302	0.0302	2.7810	1.8821	4.6631	5.1800e-003	1.8000e-004	4.8469
Unmitigated	0.6599	8.4500e-003	0.6463	4.1000e-004		0.0302	0.0302		0.0302	0.0302	2.7810	1.8821	4.6631	5.1800e-003	1.8000e-004	4.8469

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0772					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4284					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1408	3.2400e-003	0.1938	3.9000e-004		0.0277	0.0277		0.0277	0.0277	2.7810	1.1423	3.9233	4.4700e-003	1.8000e-004	4.0893
Landscaping	0.0136	5.2100e-003	0.4525	2.0000e-005		2.5100e-003	2.5100e-003		2.5100e-003	2.5100e-003	0.0000	0.7399	0.7399	7.1000e-004	0.0000	0.7576
<b>Total</b>	<b>0.6599</b>	<b>8.4500e-003</b>	<b>0.6463</b>	<b>4.1000e-004</b>		<b>0.0302</b>	<b>0.0302</b>		<b>0.0302</b>	<b>0.0302</b>	<b>2.7810</b>	<b>1.8821</b>	<b>4.6631</b>	<b>5.1800e-003</b>	<b>1.8000e-004</b>	<b>4.8469</b>

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0772					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4284					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1408	3.2400e-003	0.1938	3.9000e-004		0.0277	0.0277		0.0277	0.0277	2.7810	1.1423	3.9233	4.4700e-003	1.8000e-004	4.0893
Landscaping	0.0136	5.2100e-003	0.4525	2.0000e-005		2.5100e-003	2.5100e-003		2.5100e-003	2.5100e-003	0.0000	0.7399	0.7399	7.1000e-004	0.0000	0.7576
<b>Total</b>	<b>0.6599</b>	<b>8.4500e-003</b>	<b>0.6463</b>	<b>4.1000e-004</b>		<b>0.0302</b>	<b>0.0302</b>		<b>0.0302</b>	<b>0.0302</b>	<b>2.7810</b>	<b>1.8821</b>	<b>4.6631</b>	<b>5.1800e-003</b>	<b>1.8000e-004</b>	<b>4.8469</b>

7.0 Water Detail

7.1 Mitigation Measures Water

Deerwood - Proposed - Contra Costa 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	4.0621	0.1300	3.1100e-003	8.2387
Unmitigated	4.0621	0.1300	3.1100e-003	8.2387

**7.2 Water by Land Use**

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	Mt/yr			
Condo/Townhouse	3.9744 / 2.5056	4.0621	0.1300	3.1100e-003	8.2387
<b>Total</b>		<b>4.0621</b>	<b>0.1300</b>	<b>3.1100e-003</b>	<b>8.2387</b>

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	Mt/yr			
Condo/Townhouse	3.9744 / 2.5056	4.0621	0.1300	3.1100e-003	8.2387
<b>Total</b>		<b>4.0621</b>	<b>0.1300</b>	<b>3.1100e-003</b>	<b>8.2387</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	Mt/yr			
Mitigated	5.6959	0.3366	0.0000	14.1114
Unmitigated	5.6959	0.3366	0.0000	14.1114

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
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Deerwood - Proposed - Contra Costa County, Annual

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

Land Use	tons	MT/yr			
Condo/Townhouse	28.06	5.6959	0.3366	0.0000	14.1114
<b>Total</b>		<b>5.6959</b>	<b>0.3366</b>	<b>0.0000</b>	<b>14.1114</b>

**Mitigated**

Land Use	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	28.06	5.6959	0.3366	0.0000	14.1114
<b>Total</b>		<b>5.6959</b>	<b>0.3366</b>	<b>0.0000</b>	<b>14.1114</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

Deerwood - Office - Contra Costa County, Annual

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

**Deerwood - Office  
Contra Costa County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	51.00	1000sqft	1.17	51,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	4			<b>Operational Year</b>	2024
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics -

Land Use - Project Description

Construction Phase - no construction

Off-road Equipment - No construction

Grading -

Vehicle Trips - Traffic = 10.84 trips (10.84,2.46,0.78) at 9.74 mi/trip

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblVehicleTrips	CC_TL	7.30	9.74
tblVehicleTrips	CNW_TL	7.30	9.74
tblVehicleTrips	CW_TL	9.50	9.74



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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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**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	0.2258	0.0000	4.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.1000e-004	9.1000e-004	0.0000	0.0000	9.7000e-004
Energy	4.4600e-003	0.0405	0.0340	2.4000e-004		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003	0.0000	125.1095	125.1095	0.0140	2.4000e-003	126.1726
Mobile	0.2187	0.2756	2.2650	5.0600e-003	0.5489	3.6900e-003	0.5526	0.1466	3.4400e-003	0.1501	0.0000	466.5716	466.5716	0.0266	0.0206	473.3710
Waste						0.0000	0.0000		0.0000	0.0000	9.6279	0.0000	9.6279	0.5690	0.0000	23.8526
Water						0.0000	0.0000		0.0000	0.0000	2.8757	6.3372	9.2129	0.2964	7.1000e-003	18.7380
<b>Total</b>	<b>0.4490</b>	<b>0.3161</b>	<b>2.2995</b>	<b>5.3000e-003</b>	<b>0.5489</b>	<b>6.7700e-003</b>	<b>0.5557</b>	<b>0.1466</b>	<b>6.5200e-003</b>	<b>0.1531</b>	<b>12.5036</b>	<b>598.0191</b>	<b>610.5227</b>	<b>0.9059</b>	<b>0.0301</b>	<b>642.1352</b>

**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					

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

Area	0.2258	0.0000	4.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.1000e-004	9.1000e-004	0.0000	0.0000	9.7000e-004
Energy	4.4600e-003	0.0405	0.0340	2.4000e-004		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003	0.0000	125.1095	125.1095	0.0140	2.4000e-003	126.1726
Mobile	0.2187	0.2756	2.2650	5.0600e-003	0.5489	3.6900e-003	0.5526	0.1466	3.4400e-003	0.1501	0.0000	466.5716	466.5716	0.0266	0.0206	473.3710
Waste						0.0000	0.0000		0.0000	0.0000	9.6279	0.0000	9.6279	0.5690	0.0000	23.8526
Water						0.0000	0.0000		0.0000	0.0000	2.8757	6.3372	9.2129	0.2964	7.1000e-003	18.7380
<b>Total</b>	<b>0.4490</b>	<b>0.3161</b>	<b>2.2995</b>	<b>5.3000e-003</b>	<b>0.5489</b>	<b>6.7700e-003</b>	<b>0.5557</b>	<b>0.1466</b>	<b>6.5200e-003</b>	<b>0.1531</b>	<b>12.5036</b>	<b>598.0191</b>	<b>610.5227</b>	<b>0.9059</b>	<b>0.0301</b>	<b>642.1352</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/9/2023	9/8/2023	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

**Trips and VMT**





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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	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>0.0000</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>0.0000</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>0.0000</b>	<b>0.0000</b>

**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	0.0000	0.0000	0.0000	0.0000	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>0.0000</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>0.0000</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>0.0000</b>	<b>0.0000</b>

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

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2187	0.2756	2.2650	5.0600e-003	0.5489	3.6900e-003	0.5526	0.1466	3.4400e-003	0.1501	0.0000	466.5716	466.5716	0.0266	0.0206	473.3710
Unmitigated	0.2187	0.2756	2.2650	5.0600e-003	0.5489	3.6900e-003	0.5526	0.1466	3.4400e-003	0.1501	0.0000	466.5716	466.5716	0.0266	0.0206	473.3710

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	552.84	125.46	39.78	1,483,703	1,483,703
Total	552.84	125.46	39.78	1,483,703	1,483,703

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
General Office Building	9.74	9.74	9.74	33.00	48.00	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.561700	0.056037	0.179622	0.127612	0.023848	0.005501	0.007131	0.007135	0.000546	0.000337	0.025847	0.001311	0.003372

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	81.0203	81.0203	0.0131	1.5900e-003	81.8214
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	81.0203	81.0203	0.0131	1.5900e-003	81.8214
NaturalGas Mitigated	4.4600e-003	0.0405	0.0340	2.4000e-004		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003	0.0000	44.0892	44.0892	8.5000e-004	8.1000e-004	44.3512
NaturalGas Unmitigated	4.4600e-003	0.0405	0.0340	2.4000e-004		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003	0.0000	44.0892	44.0892	8.5000e-004	8.1000e-004	44.3512

**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					
General Office Building	826200	4.4600e-003	0.0405	0.0340	2.4000e-004		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003	0.0000	44.0892	44.0892	8.5000e-004	8.1000e-004	44.3512
<b>Total</b>		<b>4.4600e-003</b>	<b>0.0405</b>	<b>0.0340</b>	<b>2.4000e-004</b>		<b>3.0800e-003</b>	<b>3.0800e-003</b>		<b>3.0800e-003</b>	<b>3.0800e-003</b>	<b>0.0000</b>	<b>44.0892</b>	<b>44.0892</b>	<b>8.5000e-004</b>	<b>8.1000e-004</b>	<b>44.3512</b>

Mitigated

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

	Natural Gas 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					
General Office Building	826200	4.4600e-003	0.0405	0.0340	2.4000e-004		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003	0.0000	44.0892	44.0892	8.5000e-004	8.1000e-004	44.3512
<b>Total</b>		<b>4.4600e-003</b>	<b>0.0405</b>	<b>0.0340</b>	<b>2.4000e-004</b>		<b>3.0800e-003</b>	<b>3.0800e-003</b>		<b>3.0800e-003</b>	<b>3.0800e-003</b>	<b>0.0000</b>	<b>44.0892</b>	<b>44.0892</b>	<b>8.5000e-004</b>	<b>8.1000e-004</b>	<b>44.3512</b>

**5.3 Energy by Land Use - Electricity**

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	875670	81.0203	0.0131	1.5900e-003	81.8214
<b>Total</b>		<b>81.0203</b>	<b>0.0131</b>	<b>1.5900e-003</b>	<b>81.8214</b>

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	875670	81.0203	0.0131	1.5900e-003	81.8214
<b>Total</b>		<b>81.0203</b>	<b>0.0131</b>	<b>1.5900e-003</b>	<b>81.8214</b>

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

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2258	0.0000	4.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.1000e-004	9.1000e-004	0.0000	0.0000	9.7000e-004
Unmitigated	0.2258	0.0000	4.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.1000e-004	9.1000e-004	0.0000	0.0000	9.7000e-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	0.0266					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1992					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.1000e-004	9.1000e-004	0.0000	0.0000	9.7000e-004
<b>Total</b>	<b>0.2258</b>	<b>0.0000</b>	<b>4.7000e-004</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>9.1000e-004</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.7000e-004</b>

Mitigated

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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	
SubCategory	tons/yr										MT/yr						
Architectural Coating	0.0266					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1992					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.1000e-004	9.1000e-004	0.0000	0.0000	9.7000e-004	
<b>Total</b>	<b>0.2258</b>	<b>0.0000</b>	<b>4.7000e-004</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>9.1000e-004</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.7000e-004</b>	

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	9.2129	0.2964	7.1000e-003	18.7380
Unmitigated	9.2129	0.2964	7.1000e-003	18.7380

**7.2 Water by Land Use**

**Unmitigated**

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

Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	9.06442 / 5.55561	9.2129	0.2964	7.1000e-003	18.7380
<b>Total</b>		<b>9.2129</b>	<b>0.2964</b>	<b>7.1000e-003</b>	<b>18.7380</b>

**Mitigated**

Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	9.06442 / 5.55561	9.2129	0.2964	7.1000e-003	18.7380
<b>Total</b>		<b>9.2129</b>	<b>0.2964</b>	<b>7.1000e-003</b>	<b>18.7380</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.6279	0.5690	0.0000	23.8526

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

Unmitigated	9.6279	0.5690	0.0000	23.8526
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**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	47.43	9.6279	0.5690	0.0000	23.8526
<b>Total</b>		<b>9.6279</b>	<b>0.5690</b>	<b>0.0000</b>	<b>23.8526</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	47.43	9.6279	0.5690	0.0000	23.8526
<b>Total</b>		<b>9.6279</b>	<b>0.5690</b>	<b>0.0000</b>	<b>23.8526</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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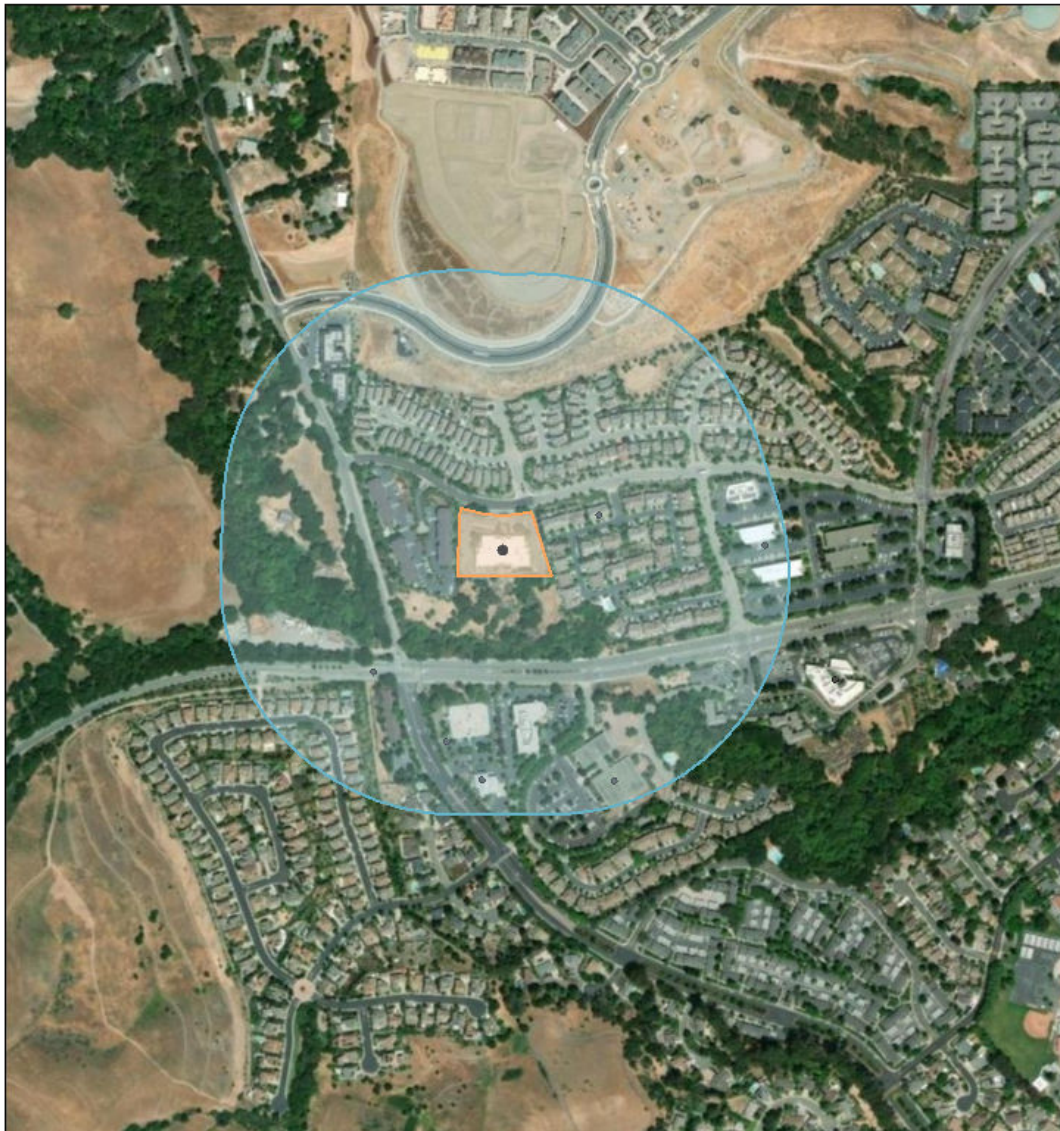


# Screening Report

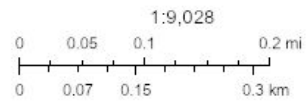
## Area of Interest (AOI) Information

Area : 4,501,890.11 ft<sup>2</sup>

Sep 22 2022 12:01:44 Pacific Daylight Time



- Permitted Stationary Sources



Maxar

## Summary

Name	Count	Area(ft <sup>2</sup> )	Length(ft)
Permitted Stationary Sources	6	N/A	N/A

## Permitted Stationary Sources

#	FacID	FacName	Address	City	Street
1	14021	San Ramon Valley Fire District - Admin Bldg	1500 Bollinger Canyon Rd	San Ramon	CA
2	14022	San Ramon Valley Fire District - Station 38	1600 Bollinger Canyon Rd	San Ramon	CA
3	20623	Police Department - City of San Ramon	2401 Crow Canyon Road	San Ramon	CA
4	22896	Webster Outpatient Surgery Center	200 Porter Drive	San Ramon	CA
5	24872	Sieva Properties LLC	2481 Deerwood Drive	San Ramon	CA
6	108472_1	San Ramon Valley FPD STA #38	1600 Bollinger Canyon Rd	San Ramon	CA

#	Zip	County	Latitude	Longitude	Details
1	94,583.00	Contra Costa	37.77	-122.00	Generator
2	94,583.00	Contra Costa	37.77	-122.00	Generator
3	94,583.00	Contra Costa	37.77	-121.99	Generator
4	94,583.00	Contra Costa	37.77	-121.99	Generator
5	94,583.00	Contra Costa	37.77	-121.99	Generator
6	94,583.00	Contra Costa	37.77	-121.99	Gas Dispensing Facility

#	NAICS	Sector	Sub_Sector	Industry	ChronicHI
1	922,160.00	Public Administration	Justice, Public Order, and Safety Activities	Fire Protection	0.0001700
2	922,160.00	Public Administration	Justice, Public Order, and Safety Activities	Fire Protection	0.0001468
3	622,110.00	Health Care and Social Assistance	Hospitals	General Medical and Surgical Hospitals	0.0000038
4	621,111.00	Health Care and Social Assistance	Ambulatory Health Care Services	Offices of Physicians (except Mental Health Specialists)	0.0002778
5	562,920.00	Administrative and Support and Waste Management and Remediation Services	Waste Management and Remediation Services	Materials Recovery Facilities	0.0814490
6	922,160.00	Public Administration	Justice, Public Order, and Safety Activities	Fire Protection	0.0024368

#	PM2_5	Cancer Risk {expression/expr0}	Chronic Hazard Index {expression/expr1}	PM2.5 {expression/expr2}	Count
1	0.0008258	0.025	0	0.001	1
2	0.0007128	0.022	0	0.001	1
3	0.0000176	0.014	0	0	1
4	0.0013014	1.034	0	0.001	1
5	0.0807471	62.823	0.081	0.081	1
6	0.0000000	0.509	0.002	No Data	1

NOTE: A larger buffer than 1000 feet may be warranted depending on proximity to significant sources.

Note that source #5 would be removed by the project.



# LIVE OAK ASSOCIATES, INC.

an Ecological Consulting Firm

**2481 DEERWOOD DRIVE  
BIOLOGICAL CONSTRAINTS ANALYSIS  
CITY OF SAN RAMON, CALIFORNIA**

Prepared by  
LIVE OAK ASSOCIATES, INC.

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September 28, 2021

PN 2613-01

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## EXECUTIVE SUMMARY

Live Oak Associates, Inc., investigated the biological resources of an approximately 4.42-acre property located at 2481 Deerwood Drive and analyzed potential biological constraints associated with the future site development of 53 townhomes and their associated infrastructure. The site is located on Deerwood Drive between Bollinger Canyon Road and Porter Drive in the City of San Ramon, California.

The site predominantly consists of two land cover types, developed and coast live oak woodland. The northern portion of the site is developed with an office building and associated parking and landscaping. The coast live oak woodland occurs in the southern part of the site on a relatively steep slope. Also present is a small area of riparian woodland associated with Bollinger Canyon Creek, which occurs just south of the site. Bollinger Canyon Creek may serve as a movement corridor for local wildlife, but the site itself does not function as a movement corridor.

Site development will occur almost entirely on the previously developed portion of the site. Because Bollinger Creek occurs entirely outside of the property boundary, project-related activities are not anticipated to result in impacts to jurisdictional waters or riparian vegetation.

The presence of special status plants could constrain project design and development. One special status plant species, Diablo helianthella, may occur in the oak woodlands on the site. A focused rare plant survey should be completed to determine if populations of this species occur on the site, and compensatory mitigation may be required if this species is extant.

A formal tree survey, inclusive of both native and landscape/ornamental trees occurring onsite, was completed by Live Oak Associates. Native trees are expected to be considered protected by the City of San Ramon's tree ordinance. Removal of protected trees could constrain project development. If the removal of native trees is necessary to accommodate the project, it must be done in accordance with the conditions set forth by a tree removal permit granted by the City as well as by the recommendations of a qualified arborist. These conditions would likely require tree replacement onsite or an alternative form of mitigation. None of the landscape or ornamental trees are anticipated to qualify as protected under the City's tree ordinance and, thus, are not expected to constrain the project.

Special status wildlife that could occur on the site include golden eagle, yellow warbler, western red bat, western mastiff bat, Townsend's big-eared bat, pallid bat, California red-legged frog, and San Francisco dusky-footed woodrat. Pre-construction surveys for nesting birds and roosting bats, along with avoidance and minimization measures to protect birds or bats that might be present, are summarized herein. The California red-legged frog and San Francisco dusky-footed woodrat are unlikely to occur on the site; however, their presence could constrain development the southern boundary of the project's construction footprint. Avoidance and minimization measures for these species are also provided.

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# 1 INTRODUCTION

## 1.1. PURPOSE AND OBJECTIVES

Live Oak Associates, Inc. (LOA), investigated the biological resources of the 4.43-acre property located at 2481 Deerwood Drive (“project site” or “site”) in the City of San Ramon and analyzed potential biological constraints associated with future site development.

This report identifies possible constraints to future site development related to sensitive biotic resources, significant biotic habitats, regional fish and wildlife movement corridors, and existing local, state, and federal natural resource protection laws regulating land use. Provisions of the California Environmental Quality Act (CEQA), federal Clean Water Act (CWA), state and federal Endangered Species Acts (CESA and FESA, respectively), California Fish and Game Code, and California Water Code could affect project buildout and/or costs, depending on the natural resources present on the site. The primary objectives of this report are as follows:

- Describe the site’s existing biological resources and summarize other site-specific information related to biological resources;
- Make reasonable inferences about sensitive species or habitats that could occur onsite based on habitat suitability and the proximity of the site to a species’ known range;
- Summarize all local, state, and federal policies and laws regulating biological resources that may be relevant to the project;
- Identify and discuss biological resource issues specific to the site that could constrain future development; and
- Identify potential avoidance, minimization, and mitigation options that could reduce the magnitude of any likely impacts to biological resources associated with future site development.

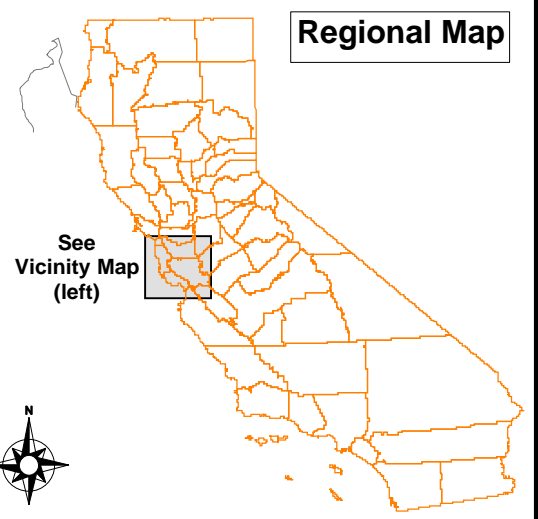
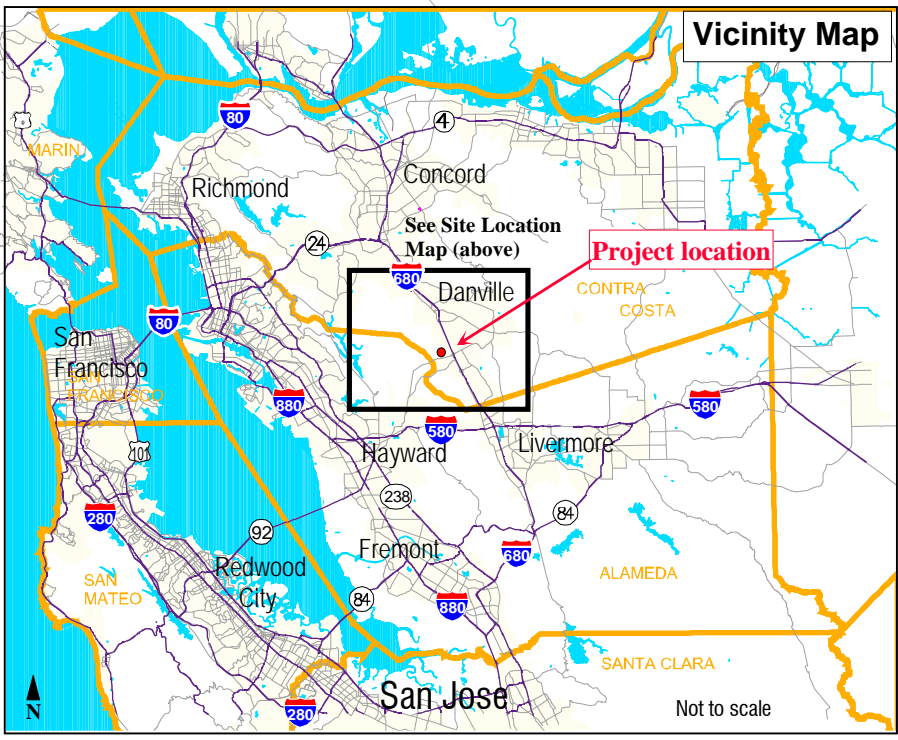
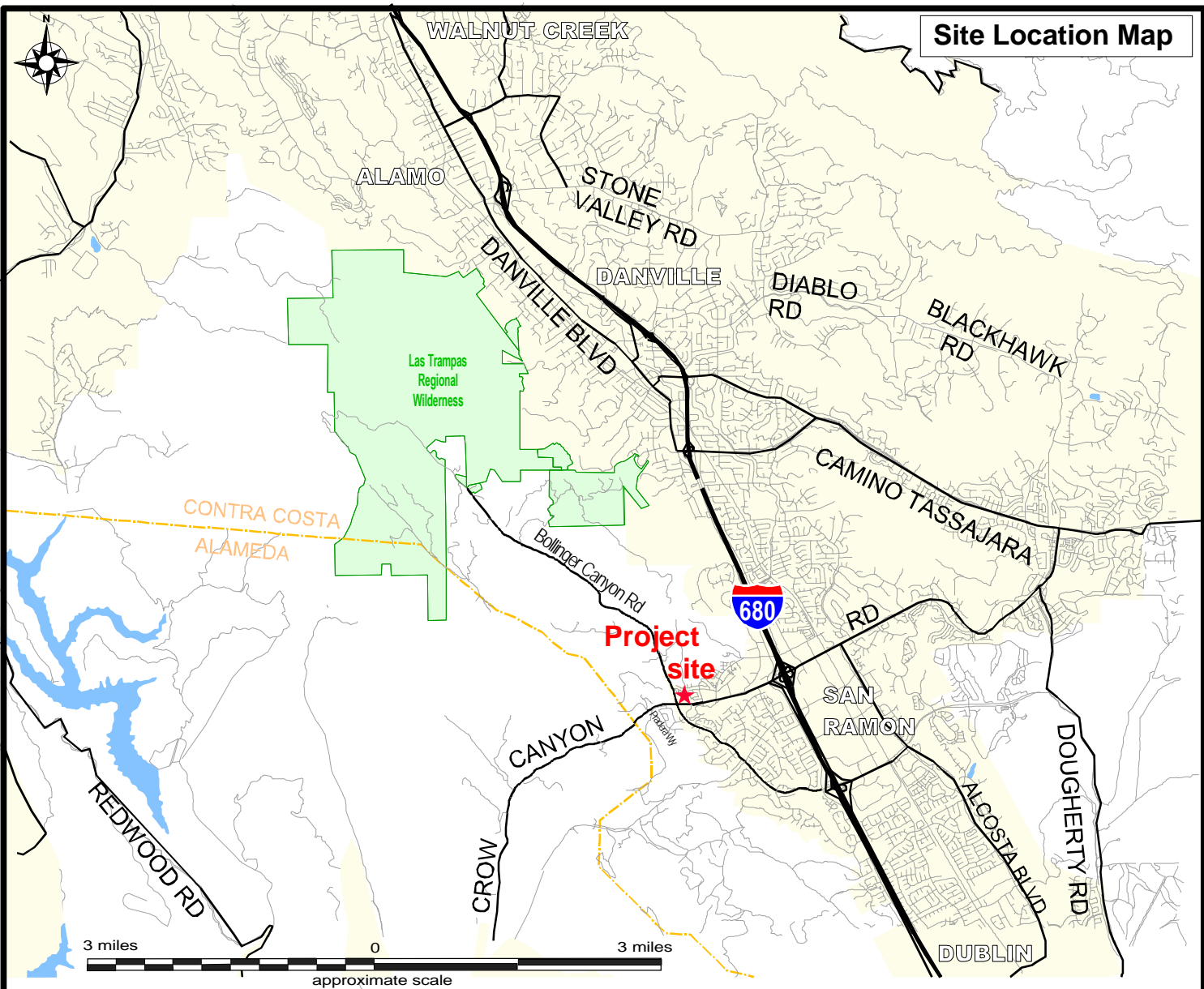
## 1.2. PROJECT LOCATION


The project site is a 4.43-acre parcel (APN 208-640-003-9) located at 2481 Deerwood Drive, between Bollinger Canyon Road and Porter Drive, in the City of San Ramon, Contra Costa County (Figure 1). The site is bounded by Deerwood Drive to the north, residential townhomes to the east, residential apartments to the west, and Bollinger Canyon Creek to the south.

The site is located in the Diablo 7.5-minute U.S. Geological Survey (USGS) quadrangle in the northeast quarter of section 8, township 2 south, range 1 west on the Mount Diablo Base and Meridian.

## 1.3. PROJECT DESCRIPTION

Trumark Homes is exploring plans to develop the northern 2.61 ac of the site with 53 townhomes and associated infrastructure as shown in the conceptual site plan prepared by KTG Architecture + Planning (2021).



 <b>Live Oak Associates, Inc.</b>		
2481 Deerwood Dr Site / Vicinity Map		
Date	Project #	Figure #
9/10/2021	2613-01	1

The southern portion of the site is proposed to remain undeveloped except for the upper slope extending approximately 20 ft out from the edge of existing development, in part due to the steep hillslope in this area. A retaining wall is proposed to be constructed on this upper slope along the extended development edge to stabilize the slope and support construction in the developable area.

No construction-related work is anticipated to occur in Bollinger Canyon Creek.

#### 1.4. STUDY METHODOLOGY

The analysis of potential project constraints, as discussed in Section 4 of this report, is based on the known and potential biotic resources of the site, discussed in Section 2, and the regulatory framework described in Section 3. Thus, the site's broader environmental setting is described to provide context for the discussion more specifically related to threatened and endangered species, wetlands, and other sensitive habitats. The biotic habitats observed on the study area, along with their constituent plants and animals, are also described. As such, the following were completed for this biological evaluation:

**Background review.** LOA reviewed resource agency data and literature, including, but not limited to, the following:

- The California Natural Diversity Database Rarefind 5 (CNDDDB; CDFW 2021);
- The California Native Plant Society's *Inventory of Rare and Endangered Vascular Plants of California* (CNPS 2021);
- United States Department of Agriculture (USDA) Natural Resource Conservation Service Custom Soil Resource Report for Contra Costa County, California (NRCS 2021);
- Reports previously prepared by LOA for other projects in the site's vicinity; and
- Manuals and references related to plants and animals of Contra Costa County.

**Field survey.** LOA ecologists Davinna Ohlson and Cristal Romero conducted a field survey of the site on August 30, 2021. The field survey included the identification of onsite habitats, plant communities, and/or land uses. The site was inspected from the ground and, where necessary, using binoculars. All identifiable plants and animals observed on the site were recorded in a field notebook.

A survey of all trees occurring on or immediately adjacent to the site was completed by International Society of Arboriculture-certified arborist Neal Kramer (#WE-7833A) on September 21-23, 2021.

## 2 EXISTING CONDITIONS

### 2.1 SITE HISTORY AND REGIONAL SETTING

The project site is located in northwestern San Ramon, west of the I-680 corridor, and is bounded by Deerwood Drive to the north, residential townhomes to the east, residential apartments to the west, and Bollinger Canyon Creek to the south. The site is near the northeast corner of the Bollinger Canyon Road-Crow Canyon Road intersection.

Prior to development in the latter half of the 20<sup>th</sup> century, the site and surrounding lands, particularly to the north, west, and south, consisted of rangelands. Orchards were dominant on the valley floor to the east.

Currently, surrounding land uses are primarily open space/rangelands in the foothills to the west and residential or commercial development to the north, east, and south. The site itself consists of an office building in the northern half and undeveloped lands in the southern half. Highway 680 is approximately one mile east of the site. Bollinger Canyon Creek, a perennial creek that is part of the San Ramon Creek sub-watershed, occurs immediately south of the site, between the site and Crow Canyon Road.

Like much of California, the project site experiences a Mediterranean climate with dry, hot summers and cool, wet winters. Annual precipitation in the general vicinity of the site is highly variable. Average annual rainfall is approximately 22 inches, most of which occurs from October to April (WRCC 2021).

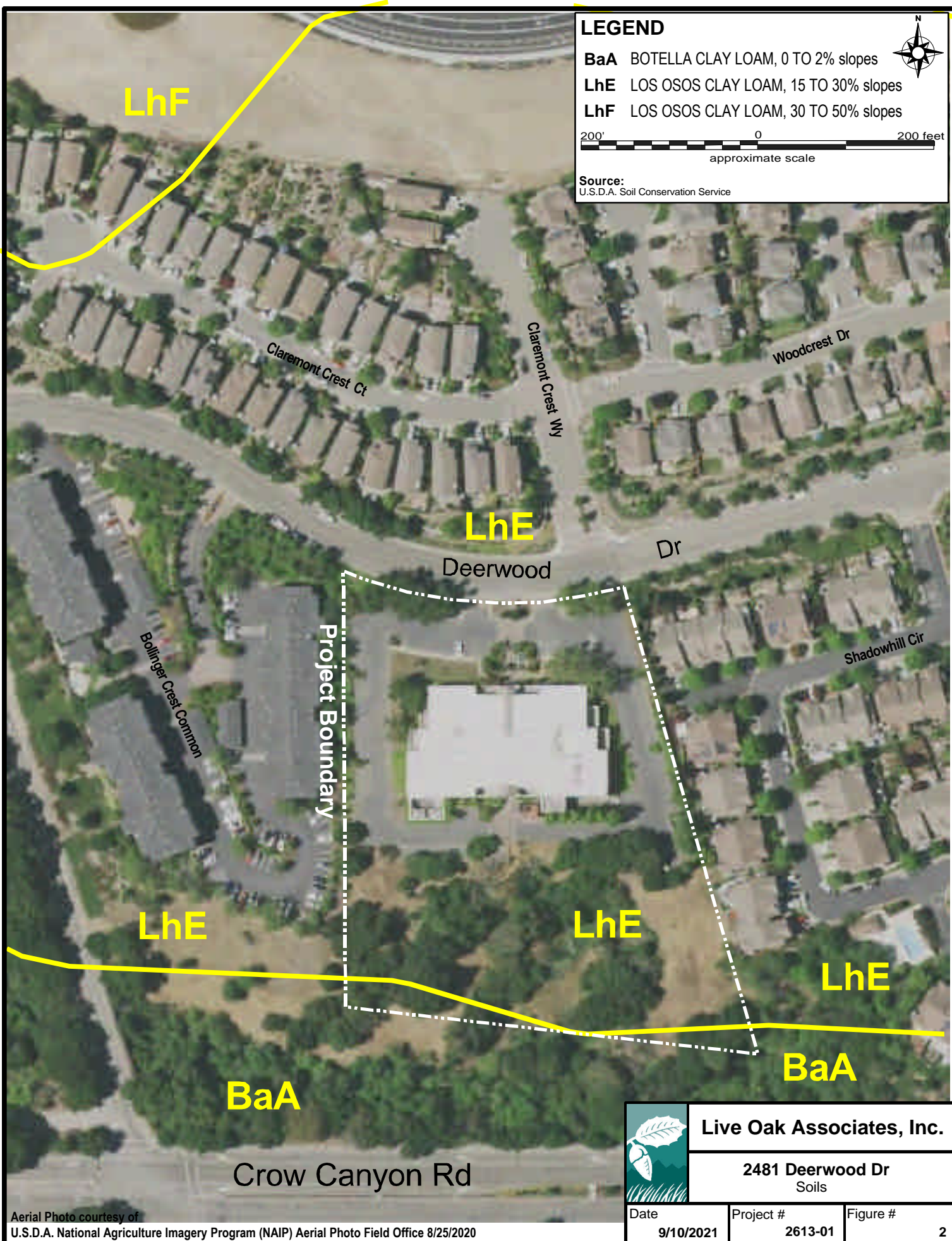
The site's topography is slightly sloping in the northern half and steeply sloped in the southern half, ranging in elevations from 650 ft to 560 ft National Geodetic Vertical Datum.

### 2.2 SOILS

Two soil types from two soil series—Los Osos clay loam, 15 to 30% slopes, and Botella clay loam, 0 to 2% slopes—occur on the site (Figure 2). The Los Osos series consists of soils with slow permeability that formed from material weathered from firm to hard sandstone and shale. The Botella series consists of soils with moderately slow permeability that formed from alluvium derived from mixed rock sources on stream terraces and alluvial fans (NRCS 2021).

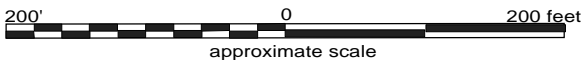
Both Los Osos and Botella soils are well drained (NRCS 2021). Drainage refers to the frequency and duration of periods when the soil is saturated with water. Botella clay loam, 0 to 2% slopes, is also considered hydric. Hydric soils are soils that are saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper part. Under sufficiently wet conditions, they support the growth and regeneration of hydrophytic vegetation. Los Osos soils are not considered hydric, although hydric inclusions may occur within the study area.

Neither soil type is alkaline, thus precluding plant species adapted to alkaline soils from successfully maintaining populations on the site. Serpentine soils are also absent from the site, and plants adapted to such soils would not have colonized the site in the past or under current conditions (NRCS 2021).



**LEGEND**

- BaA** BOTELLA CLAY LOAM, 0 TO 2% slopes
- LhE** LOS OSOS CLAY LOAM, 15 TO 30% slopes
- LhF** LOS OSOS CLAY LOAM, 30 TO 50% slopes



Source:  
U.S.D.A. Soil Conservation Service

Project Boundary

**LhE**  
Deerwood Dr

**LhF**

**LhE**

**LhE**

**LhE**

**BaA**

**BaA**

Crow Canyon Rd



**Live Oak Associates, Inc.**

**2481 Deerwood Dr**  
Soils

Date	Project #	Figure #
9/10/2021	2613-01	2

## 2.3 BIOTIC HABITATS AND LAND USES

For the purposes of this analysis, one land use and two biotic habitats were identified on the site: 1) developed, 2) coast live oak woodland, and 3) riparian woodland and forest (Figure 3). These habitats and land use, along with their constituent plant and animal species, are described in more detail in the following subsections. A list of the vascular plant species observed on the project site is provided in Appendix A. Selected photographs of the project site are presented in Appendix B.

### 2.3.1 Developed

The northern, approximately 2 ac of the site is developed with a two-story office building that is surrounded by associated parking areas and decorative landscaping. The area surrounding the building is paved and utilized for vehicle parking. On the southern edge of this paved area, an observation deck overlooks the remainder of the property.

The perimeter of the office building and parking lot is landscaped with ornamental trees and shrubs, including sweetgum (*Liquidambar styraciflua*), callery pear (*Pyrus calleryana*), loquat (*Eriobotrya japonica*), and red claws (*Escallonia rubra*).

The developed portion of the site has limited potential to support a diversity of wildlife except for those adapted to urban environments.

Western fence lizards (*Sceloporus occidentalis*) were observed in landscaped areas where shrub cover was present.

The landscape trees and shrubs were not large enough to be suitable for raptor nests but could still be utilized by passerine species such as dark-eyed juncos (*Junco hyemalis*), which were observed where shrubs and leaf litter were present. Bird deterrent spikes were present along parts of the upper portion of the building, specifically above the main entryways, but some of the more persistent avian species could still likely find areas upon which to nest.

Upon inspection, the office building did not appear to have suitable crevices in which bats could roost, although bat species such as the Mexican free-tailed bat (*Tadarida brasiliensis*) may forage over the site for flying insects. Feral house cats (*Felis catus*) residing in the surrounding residential areas are likely to occur on the site as well.


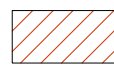

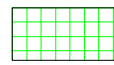
### 2.3.2 Coast Live Oak Woodland

The southern part of the site occurs on a steep slope that levels out along the southern boundary. This area consists of oak woodland dominated by coast live oaks (*Quercus agrifolia*) and having a moderately open canopy. Other native trees subdominant in this plant community include valley oak (*Quercus lobata*), California bay (*Umbellularia californica*), and California buckeye (*Aesculus californica*). The modest shrub layer consisted of coyote brush (*Baccharis pilularis*), poison oak (*Toxicodendron diversilobum*), and blue elderberry (*Sambucus nigra* ssp. *caerulea*). The herbaceous layer consists of non-native grasses primarily of European origin such as slender wild oats (*Avena barbata*) and ripgut brome (*Bromus diandrus*) as well as Italian thistle (*Carduus pycnocephalus*) and the highly invasive yellow star thistle (*Centaurea solstitialis*).





**LEGEND**

-  Project Boundary  
4.43 Ac.
-  Developed  
2.41 Ac.
-  Coast Live Oak Woodland  
1.93 Ac.
-  Riparian Woodland  
0.09 Ac.



**Live Oak Associates, Inc.**

**2481 Deerwood Dr  
Habitats**

Date	Project #	Figure #
9/10/2021	2613-01	3

Oak woodlands typically serve as habitat for a rich suite of faunal species, particularly where they serve as a transition between riparian woodlands, such as Bollinger Canyon Creek immediately to the south, and upland, grassland habitats. Some trash and debris is present within the oak woodland onsite, indicating occasional human presence from neighboring properties or unhoused residents. Because the site is surrounded by development and because of human presence within the oak woodland, species richness is likely less than what would be expected in undeveloped areas.

Thatch and leaf litter provides cover for reptiles such as western fence lizards, southern alligator lizards (*Elgaria multicaudata*) and gopher snakes (*Pituophis catenifer*), which forage in this habitat for insects, lizards, or small mammals.

Red-tailed hawks (*Buteo jamaicensis*) and turkey vultures (*Cathartes aura*) were observed flying over the site and would be expected to forage for small reptiles, birds, and mammals that may be present. California scrub-jays (*Aphelocoma californica*) were observed in the oak trees.

The structural diversity of woodlands provides an abundant food source for and can attract a variety of mammalian species. Larger mammals, such as coyotes (*Canis latrans*) and bobcats (*Lynx rufus*), may infrequently occur on the site due to barriers that would limit their ability to access the site. However, small mammals, including the deer mouse (*Peromyscus maniculatus*) and brush rabbit (*Sylvilagus bachmani*), would be expected to occur onsite, where they may feed on soil-dwelling invertebrates, seeds, leaves, or grasses. Botta's pocket gopher (*Thomomys bottae*) mounds were also present.

### 2.3.3 Riparian Woodland

A small area of riparian woodland associated with Bollinger Canyon Creek is present in the southeast corner of the site (Figure 3). The area of riparian woodland occurring onsite consists of coast live oaks in the tree layer, although California bay, big leaf maple (*Acer macrophyllum*), and red willow (*Salix laevigata*) are present elsewhere within the riparian corridor outside of the site's boundary. The understory consists of native snowberry (*Symphoricarpos albus* ssp. *laevigatus*) and non-native grasses and forbs similar to that in the coast live oak woodland.

Riparian systems typically exhibit structural complexity, support high plant and wildlife diversity, and serve as movement corridors for species traversing or migrating between other habitat types. However, the riparian function of this reach of Bollinger Canyon Creek is reduced because of its proximity to surrounding development, particularly to the south, and because of upstream and downstream breaks in corridor continuity.

The small area of riparian habitat occurring on the site is located above the creek bank. Because it is vegetatively similar in both structure and species composition to that of the coast live oak woodland, amphibians that might inhabit Bollinger Canyon Creek and rely on its moisture regime for survival are unlikely to occur in the onsite riparian woodland. Reptiles, birds, and mammals occurring in the adjacent coast live oak woodland are also likely to utilize the riparian woodland for foraging and dispersal. Raccoons (*Procyon lotor*) are a common predator whose diet includes amphibians and other aquatic organisms and would also be expected to occur in this habitat.

## 2.4 SPECIAL STATUS PLANTS AND ANIMALS

Many plant and animal species in California have naturally low populations, limited distributions, or both. Such species are vulnerable to extirpation as the state's human population grows and the habitats these species occupy are converted to urban, agricultural, and other human uses. Plant and wildlife species have also experienced an anthropogenic decline in population numbers due to habitat loss and degradation, climate change, the introduction of non-native competitors, hunting, and other factors.

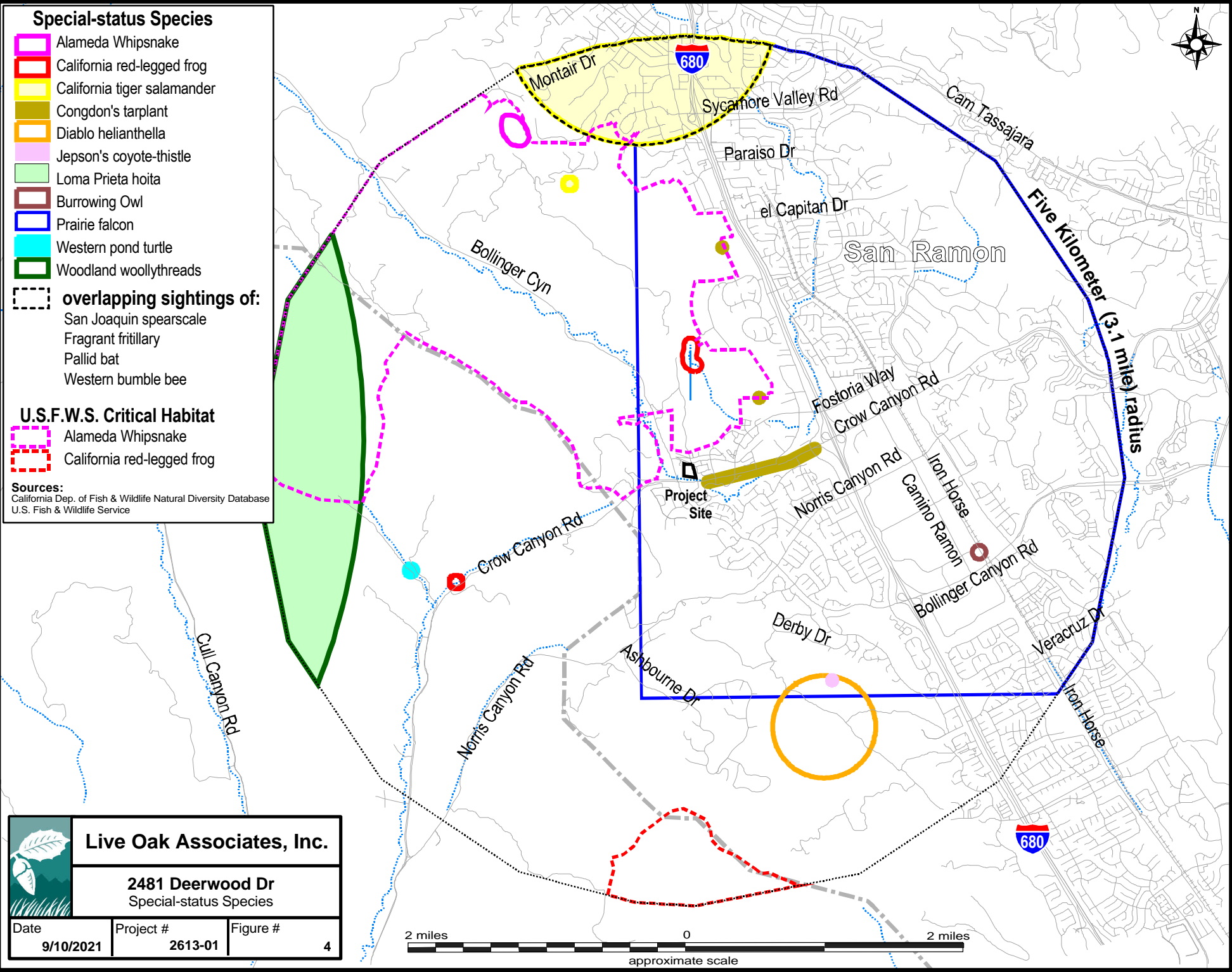
Federal and state endangered species legislation provides a legal mechanism for conserving and protecting plant and animal species of limited distribution and/or low or declining populations. As described more fully in Section 3.2, state and federal laws provide the California Department of Fish and Wildlife (CDFW) and the U.S. Fish and Wildlife Service (USFWS) with a mechanism for conserving and protecting the diversity of plant and animal species native to the state. Many native plants and animals have been formally designated as threatened or endangered under state and federal endangered species legislation. Others have been designated as candidates for such listing. Still others have been designated as "species of special concern" by the CDFW. The California Native Plant Society (CNPS) has developed its own set of lists of native plants considered rare, threatened, or endangered (CNPS 2019). Collectively, these plants and animals are referred to as "special status species."

The California Natural Diversity Database (CDFW 2021) and the California Native Plant Society's *Inventory of Rare and Endangered Vascular Plants of California* (CNPS 2021) were queried for special status species occurrences in the Diablo USGS 7.5" quadrangle in which the project site occurs and for the eight surrounding quadrangles (Antioch South, Las Trampas Ridge, Clayton, Dublin, Hayward, Livermore, Tassajara, and Walnut Creek). These species and their potential to occur on the project site are summarized in Tables 1 and 2. This information was used to evaluate the potential for special status plant and animal species to occur on the project site. Other factors considered in this evaluation include the ability of the habitats occurring on the site to support the species, geographical distance of the project site from known populations or occurrences of the species, and ability of the species to travel from areas of known populations or occurrences to the project site. Figure 4 presents the location of special status species reported in the California Natural Diversity Data Base (CNDDB).

Because serpentine and alkaline soils are absent from the site, those species that are uniquely adapted to these soil conditions are also considered to be absent. These include the alkali milk-vetch (*Astragalus tener* var. *tener*), brittlescale (*Atriplex depressa*), lesser saltscale (*Atriplex minuscula*), Mt. Diablo bird's-beak (*Cordylanthus nidularius*), San Joaquin spearscale (*Extriplex joaquiniana*), fragrant fritillary (*Fritillaria liliaceae*), woodland woollythreads (*Monolopia gracilens*), California alkali grass (*Puccinellia simplex*), chaparral ragwort (*Senecio aphanactis*), long-styled sand-spurrey (*Spergularia macrotheca* var. *longistyla*), most beautiful jewel-flower (*Streptanthus albidus* ssp. *peramoenus*), saline clover (*Trifolium hyrophilum*), and caper-fruited troidocarpum (*Troidocarpum capparideum*).

Other plant species occur in habitats that are not present on the site (e.g., chaparral, dunes, etc.) and, therefore, are also considered absent from the project site. These species include the slender silver moss (*Anomobryum julaceum*), Mt. Diablo manzanita (*Arctostaphylos auriculata*),

Contra Costa manzanita (*Arctostaphylos manzanita* ssp. *laevigata*), chaparral harebell (*Campanula exigua*), Lime Ridge eriastrum (*Eriastrum erterae*), Jepson's coyote thistle (*Eryngium jepsonii*), Toren's grimmia (*Grimmia torenii*), Hall's bush mallow (*Malacothamnus hallii*), Lime Ridge navarretia (*Navarretia gowenii*), prostrate vernal pool navarretia (*Navarretia prostrata*), Antioch Dunes evening-primrose (*Oenothera deltoides* ssp. *howellii*), Mt. Diablo phacelia (*Phacelia phacelioides*), hairless popcorn-flower (*Plagiobothrys glaber*), Oregon polemonium (*Polemonium carneum*), slender-leaved pondweed (*Stuckenia filiformis*), and coastal triquetrella (*Triquetrella californica*).



**Special-status Species**

- Alameda Whipsnake
  - California red-legged frog
  - California tiger salamander
  - Congdon's tarplant
  - Diablo helianthella
  - Jepson's coyote-thistle
  - Loma Prieta hoita
  - Burrowing Owl
  - Prairie falcon
  - Western pond turtle
  - Woodland woollythreads
- overlapping sightings of:**
- San Joaquin spearscale
  - Fragrant fritillary
  - Pallid bat
  - Western bumble bee
- U.S.F.W.S. Critical Habitat**
- Alameda Whipsnake
  - California red-legged frog

**Sources:**  
 California Dep. of Fish & Wildlife Natural Diversity Database  
 U.S. Fish & Wildlife Service

**Live Oak Associates, Inc.**

2481 Deerwood Dr  
 Special-status Species

Date	Project #	Figure #	
9/10/2021	2613-01	4	

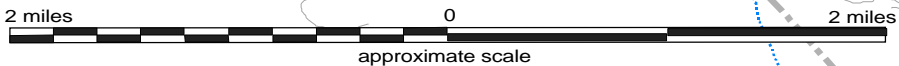


Table 1. Special status plant species that could occur on the project site and vicinity (CDFW 2021; CNPS 2021).

<i>Species Listed as Threatened or Endangered under the State and/or Federal Endangered Species Acts</i>			
Common and scientific names	Status	General habitat description and blooming period	*Occurrence in the study area
Large-flowered fiddleneck <i>Amsinckia grandiflora</i>	FE, CE, CRPR 1B	<u>Habitat</u> : Cismontane woodland and valley and foothill grasslands. <u>Elevation</u> : 275-550 meters. <u>Blooms</u> : April–May. <u>Life form</u> : Annual herb.	<b>Unlikely.</b> While potentially suitable habitat is present in the oak woodland, the nearest documented occurrences of this species are more than twelve miles east and northeast of the site.
Palmate-bracted bird's-beak <i>Chloropyron palmatum</i>	FE, CE, CRPR 1B	<u>Habitat</u> : Alkaline soils of chenopod scrub and valley and foothill grasslands. <u>Elevation</u> : 5-155 meters. <u>Blooms</u> : May–October. <u>Life form</u> : Annual herb (hemiparasitic).	<b>Absent.</b> Alkaline soils are absent from the study area.
Santa Cruz tarplant <i>Holocarpha macradenia</i>	FT, CE, CRPR 1B	<u>Habitat</u> : Coastal prairie, coastal scrub, and valley and foothill grasslands, often on clay or sandy soils. <u>Elevation</u> : 10-220 meters. <u>Blooms</u> : June–October. <u>Life form</u> : Annual herb.	<b>Absent.</b> The study area occurs too far inland (i.e., more than ten miles) from the known range of this species. Additionally, the nearest and most recent documented occurrence of this species is from 1915.
Contra Costa goldfields <i>Lasthenia conjugens</i>	FE, CRPR 1B	<u>Habitat</u> : Cismontane woodlands, alkaline playas, valley and foothill grasslands, and vernal pools; occurs in mesic soils. <u>Elevation</u> : 0-470 meters. <u>Blooms</u> : March–June. <u>Life form</u> : Annual herb.	<b>Absent.</b> Alkaline soils are absent from the site, and the site does not support mesic areas. The nearest documented occurrences of this species are more than ten miles from the site.
Rock sanicle <i>Sanicula saxatilis</i>	CR, CRPR 1B	<u>Habitat</u> : Rocky soils of broadleaved upland forest, chaparral, and valley and foothill grasslands. <u>Elevation</u> : 620-1175 meters. <u>Blooms</u> : April–May. <u>Life form</u> : Perennial herb.	<b>Absent.</b> The study area lacks rocky soils and talus slopes. All of the known regional occurrences of this species are from Mt. Diablo State Park.
<b>PLANTS (adapted from CDFW 2021 and CNPS 2021)</b>			
<i>Other special status plants listed by CNPS</i>			
Bent-flowered fiddleneck <i>Amsinckia lunaris</i>	CRPR 1B	<u>Habitat</u> : Coastal bluff scrub, cismontane woodland, and valley and foothill grasslands. <u>Elevation</u> : 3-500 meters. <u>Blooms</u> : March–June. <u>Life form</u> : Annual herb.	<b>Unlikely.</b> While potentially suitable habitat is present in the oak woodland, the nearest documented occurrences of this species are in the Las Trampas Regional Wilderness more than three miles northwest of the site.

Table 1. Special status species that could occur on the project site and vicinity (CDFW 2021; CNPS 2021).

**Other special status plants listed by CNPS**

Common and scientific names	Status	General habitat description and blooming period	*Occurrence in the study area
Big-scale balsamroot <i>Balsamorhiza macrolepis</i>	CRPR 1B	<u>Habitat</u> : Chaparral, cismontane woodland, and valley and foothill grassland, sometimes on serpentine. <u>Elevation</u> : 90-1555 meters. <u>Blooms</u> : March–June. <u>Life form</u> : Perennial herb.	<b>Unlikely.</b> While potentially suitable habitat is present on the site, the nearest documented occurrences of this species are more than six miles west of the site.
Big tarplant <i>Blepharizonia plumosa</i>	CRPR 1B	<u>Habitat</u> : Valley and foothill grassland. <u>Elevation</u> : 30-505 meters. <u>Blooms</u> : July–October. <u>Life form</u> : Annual herb.	<b>Unlikely.</b> While potentially suitable habitat is present on the site, the nearest documented occurrences of this species are more than eight miles north of the site.
Mt. Diablo fairy lantern <i>Calochortus pulchellus</i>	CRPR 1B	<u>Habitat</u> : Chaparral, cismontane woodland, riparian woodland, and valley and foothill grassland. Microhabitats include wooded and brushy slopes. <u>Elevation</u> : 30-840 meters. <u>Blooms</u> : April–June. <u>Life form</u> : Perennial bulbiferous herb.	<b>Unlikely.</b> Potentially suitable habitat is present on the site. This species has been documented on Rocky Ridge in the Las Trampas Regional Wilderness approximately four miles west of the site. However, this occurrence was from 1989. All other documented occurrences of this species are more than five miles from the site, mostly around Mt. Diablo.
Congdon's tarplant <i>Centromadia parryi</i> ssp. <i>congdonii</i>	CRPR 1B	<u>Habitat</u> : Valley and foothill grassland on alkaline soils, swales, terraces, floodplains, grasslands, disturbed sites. <u>Elevation</u> : 1-230 meters. <u>Blooms</u> : May–November. <u>Life form</u> : Annual herb.	<b>Absent.</b> Congdon's tarplant was documented in 1933 along Crow Canyon Road less than 0.1 miles east of the site and in 2001 less than one mile northeast of the site. However, no <i>Centromadia</i> species occurred on the site during the August 2021 survey, when they would have been observable and identifiable.
Hoover's cryptantha <i>Cryptantha hooveri</i>	CRPR 1A	<u>Habitat</u> : Inland dunes and valley and foothill grasslands on sandy soils. <u>Elevation</u> : 9-150 meters. <u>Blooms</u> : April–May. <u>Life form</u> : Annual herb.	<b>Absent.</b> Coarse, sandy soils are absent from the Project Site. The nearest and most recent occurrence of this species is from 1908.
Hospital Canyon larkspur <i>Delphinium californicum</i> ssp. <i>interius</i>	CRPR 1B	<u>Habitat</u> : Chaparral openings, cismontane woodland, and coastal scrub. <u>Elevation</u> : 195-1095 meters. <u>Blooms</u> : April–June.	<b>Unlikely.</b> While potentially suitable habitat is present on the site, the nearest documented occurrences of this species are more than six miles northeast of the site near Mt. Diablo.

Table 1. Special status species that could occur on the project site and vicinity (CDFW 2021; CNPS 2021).

**Other special status plants listed by CNPS**

Common and scientific names	Status	General habitat description and blooming period	*Occurrence in the study area
Western leatherwood <i>Dirca occidentalis</i>	CRPR 1B	<u>Habitat</u> : Broadleaved upland forest, closed-cone coniferous forest, chaparral, cismontane woodland, North Coast coniferous forest, riparian forest, and mesic riparian woodlands. <u>Elevation</u> : 25-425 meters. <u>Blooms</u> : January–April. <u>Life form</u> : Perennial deciduous shrub.	<b>Unlikely.</b> While potentially suitable habitat is present on the site, the nearest documented occurrences of this species are more than seven miles west of the site.
Mt. Diablo buckwheat <i>Eriogonum truncatum</i>	CRPR 1B	<u>Habitat</u> : Chaparral, coastal scrub, valley and foothill grassland; typically occurs on dry, exposed clay or sandy substrates. <u>Elevation</u> : 3-350 meters. <u>Blooms</u> : April–December. <u>Life form</u> : Annual herb.	<b>Absent.</b> Suitable substrate for this species is generally absent from the site, and no <i>Eriogonum</i> species occurred on the site during the August 2021 survey, when they would have been observable and identifiable. The nearest documented occurrences of this species are more than five miles east of the site. The most recent documented occurrence of this species in the region was in 1936.
Diablo helianthella <i>Helianthella castanea</i>	CRPR 1B	<u>Habitat</u> : Broadleaved upland forest, chaparral, cismontane woodland, coastal scrub, riparian woodland, valley and foothill grassland. <u>Elevation</u> : 60-1300 meters. <u>Blooms</u> : March–June. <u>Life form</u> : Perennial herb.	<b>Possible.</b> Potentially suitable habitat is present in the undeveloped portion of the site.
Brewer's western flax <i>Hesperolinon breweri</i>	CRPR 1B	<u>Habitat</u> : Usually occurs on serpentine soils of chaparral, cismontane woodland, and valley and foothill grassland. <u>Elevation</u> : 30-945 meters. <u>Blooms</u> : May–July. <u>Life form</u> : Annual herb.	<b>Absent.</b> Serpentine soils are absent from the study area. The nearest documented occurrences of this species are more than six miles northwest of the site.
Loma Prieta hoita <i>Hoita strobilina</i>	CRPR 1B	<u>Habitat</u> : Chaparral, cismontane woodland, and riparian woodland. Usually occurs on serpentinic or mesic soils. <u>Elevation</u> : 30-860 meters. <u>Blooms</u> : May–October.	<b>Absent.</b> The site does not support serpentine soils. The only documented occurrence in the region is from 1865.
Carquinez goldenbush <i>Isocoma arguta</i>	CRPR 1B	<u>Habitat</u> : Valley and foothill grassland on alkaline soils. <u>Elevation</u> : 1-20 meters. <u>Blooms</u> : August–December.	<b>Absent.</b> Alkaline soils are absent from the site. The nearest documented occurrence of this species is more than fifteen miles from the site.



Table 1. Special status species that could occur on the project site and vicinity (CDFW 2021; CNPS 2021).

<b>Other special status plants listed by CNPS</b>			
<b>Common and scientific names</b>	<b>Status</b>	<b>General habitat description and blooming period</b>	<b>*Occurrence in the study area</b>
Northern California black walnut <i>Juglans hindsii</i>	CRPR 1B	<u>Habitat</u> : Riparian forest and riparian woodland. <u>Elevation</u> : 0-440 meters. <u>Blooms</u> : April–May. <u>Life form</u> : Perennial deciduous tree.	<b>Absent.</b> Walnut trees are absent from the site.
Showy golden madia <i>Madia radiata</i>	CRPR 1B	<u>Habitat</u> : Cismontane woodland and valley and foothill grassland; mostly occurs on adobe clay. <u>Elevation</u> : 75-1220 meters. <u>Blooms</u> : March–May. <u>Life form</u> : Annual herb.	<b>Unlikely.</b> While potentially suitable habitat is present on the site, the last known occurrence of this species in the region was from 1941.
Mt. Diablo cottonweed <i>Micropus amphibolus</i>	CRPR 3	<u>Habitat</u> : Broadleaved upland forest, chaparral, cismontane woodland, and valley and foothill grassland; occurs on rocky soils. <u>Elevation</u> : 45-825 meters. <u>Blooms</u> : March–May. <u>Life form</u> : Annual herb.	<b>Unlikely.</b> Rocky soils do not occur on the Project Site.
Shining navarretia <i>Navarretia nigelliformis</i> ssp. <i>radians</i>	CRPR 1B	<u>Habitat</u> : Cismontane woodland, valley and foothill grassland, and vernal pools; sometimes occurs on clay soils. <u>Elevation</u> : 76-1000 meters. <u>Blooms</u> : April –July. <u>Life form</u> : Annual herb.	<b>Unlikely.</b> While potentially suitable habitat is present on the Project Site, the nearest documented occurrence of this species is more than 14 miles northeast of the site near Antioch.
Lobb’s aquatic buttercup <i>Ranunculus lobbii</i>	CRPR 4	<u>Habitat</u> : Cismontane woodland, North Coast coniferous forest, valley and foothill grassland, and vernal pools. Occurs in mesic areas. <u>Elevation</u> : 15-470 meters. <u>Blooms</u> : February –May.	<b>Unlikely.</b> Mesic areas do not occur within the undeveloped parts of the site.
Mt. Diablo jewel-flower <i>Streptanthus hispidus</i>	CRPR 1B	<u>Habitat</u> : Chaparral and valley and foothill grassland on rocky soils. <u>Elevation</u> : 365-1200 meters. <u>Blooms</u> : March–June. <u>Life form</u> : Annual herb.	<b>Absent.</b> Rocky soils are absent from the site. All regional occurrences of this species are located more than six miles northeast of the site around Mt. Diablo.
Oval-leaved viburnum <i>Viburnum ellipticum</i>	CRPR 2	<u>Habitat</u> : Chaparral, cismontane woodland, and lower montane coniferous forest. <u>Elevation</u> : 215-1400 meters. <u>Blooms</u> : May–June.	<b>Unlikely.</b> While potentially suitable habitat is present on the site, the nearest documented occurrences of this species are more than six miles from the site.

**Table 2. Special status wildlife species that could occur on the project site and vicinity (CDFW 2021).**

**Species Listed as Threatened or Endangered under the State and/or Federal Endangered Species Acts**

Common and scientific names	Status	General habitat description	*Occurrence in the study area
Vernal pool fairy shrimp <i>Branchinecta lynchi</i>	FT	Vernal pools of California’s Central Valley.	<b>Absent.</b> Vernal pools are absent from the site. The nearest documented occurrences of this species are more than twelve miles northeast of the site.
Vernal pool tadpole shrimp <i>Lepidurus packardii</i>	FE	Occurs in vernal pools containing clear to highly turbid water in unplowed grasslands of the Central Valley.	<b>Absent.</b> Vernal pools are absent from the site. The nearest documented occurrence of this species is approximately 15 miles northeast of the site.
California tiger salamander – Central Valley DPS <i>Ambystoma californiense</i>	FT, CT	Breeds in stagnant pools that have continuous inundation for a minimum of 3 months, such as vernal pools and stock ponds. Adults utilize grassland habitats adjacent to breeding sites and are capable of migrating up to 1.3 miles from their breeding sites.	<b>Absent.</b> The site does not have habitat to support this species, as no ponded areas occur onsite. The CNDDDB yields no records for CTS in the extreme southwestern corner of Contra Costa County west of the I-680 corridor. The nearest documented occurrence of this species was from 1952, approximately three miles north of the site, and is considered extirpated. There is one record of CTS south of the I-580 corridor and west of the I-680 corridor. However, all other records of CTS in the region are east of the I-680 corridor. Based on the distribution of these occurrences, the site likely occurs outside the native range of the species. While CTS are known to utilize upland habitat, extant CTS populations east of I-680 would be unable to access the project site as the I-680 freeway and adjacent areas of urbanization act as a complete barrier to any salamander movements. Furthermore, the site occurs well beyond the observed 1.3-mile migration radius of CTS.

Table 2. Special status wildlife species that could occur on the project site and vicinity (CDFW 2021).

*Species Listed as Threatened or Endangered under the State and/or Federal Endangered Species Acts*

Common and scientific names	Status	General habitat description	*Occurrence in the study area
California red-legged frog <i>Rana draytonii</i>	FT, CSC	Dense, shrubby riparian vegetation such as arroyo willow, cattails, and bulrushes with still or slow-moving water. Perennial streams or ponds are preferred, and a salinity of no more than 4.5%.	<b>Possible.</b> CRLF are known to occur in locations of Bollinger Canyon Creek upstream of the site and along the adjacent Crow Creek drainage approximately 1.8 mi west of the site. There is also an occurrence approximately 0.8 mi north of the project site. Breeding habitat does not occur on the site itself but could occur in the reach of Bollinger Canyon Creek immediately south of the site. Thus, the small area of riparian woodlands onsite could offer limited and marginal habitat for escape cover and foraging. However, due to the steepness of the hillslope and the limited amount of adjacent upland habitat on the undeveloped part of the site, it is unlikely that CRLF could reach the area where active construction would occur. The site does not occur within critical habitat designated by the USFWS for this species.
Alameda whipsnake <i>Masticophis lateralis euryxanthus</i>	FT, CT	Ranges from the inner coast range in western and central Contra Costa and Alameda counties. Typically occurs in chaparral and scrubland habitats with rock outcrops and talus pilings. Can also occur in adjacent grasslands, oak savanna, and oak/bay woodlands.	<b>Unlikely.</b> The nearest records for this species are known to occur over five miles to the northwest in the Las Trampas Regional Wilderness. The site does not provide suitable habitat for this species due to the absence of scrub and chaparral habitats, and the site does not have rocky outcrops or talus pilings.
Swainson's hawk <i>Buteo swainsoni</i>	CT	Breeds in stands with few trees in juniper-sage flats, riparian areas, and in oak savannah. Requires adjacent suitable foraging areas such as grasslands or alfalfa fields supporting rodent populations.	<b>Unlikely.</b> The nearest documented record of this species was from 1898 and is more than six miles northeast of the site near Mt. Diablo. The site occurs outside of the known range of this species.

**Table 2. Special status wildlife species that could occur on the project site and vicinity (CDFW 2021).**

***Species Listed as Threatened or Endangered under the State and/or Federal Endangered Species Acts***

Common and scientific names	Status	General habitat description	*Occurrence in the study area
San Joaquin kit fox <i>Vulpes macrotis mutica</i>	FE, CT	Frequents desert alkali scrub and annual grasslands and may forage in adjacent agricultural habitats; needs loose-textured, sandy soils for burrowing and suitable prey base. This species uses enlarged (4 to 10 inches in diameter) ground squirrel burrows as denning habitat.	<b>Absent.</b> The site does not provide suitable denning and foraging habitat for this species as the project site is relatively small and the surrounding area is developed. There have been three documented occurrences within ten miles of the site since 1975. The nearest observation of this species was documented approximately 4.5 miles northeast of the site in 1989. No occurrences have been documented west of Hwy 680. Lands immediately east of the site (i.e., along the I-680 corridor) have been developed, serving as a barrier to dispersal. Therefore, kit foxes are presumed absent from the project site, as it is a few miles west of the nearest sighting and is considered outside its historic and existing range with no open land corridor on which to further disperse.

**Table 2. Special status wildlife species that could occur on the project site and vicinity (CDFW 2021).**

***California Species of Special Concern and Protected Species***

Common and scientific names	Status	General habitat description	*Occurrence in the study area
Foothill yellow-legged frog <i>Rana boylei</i>	CE, CSC	Occurs in swiftly flowing streams and rivers with rocky substrate with open, sunny banks in forest, chaparral, and woodland habitats, and can sometimes be found in isolated pools and ponds.	<b>Absent.</b> Bollinger Canyon Creek, which occurs outside of but immediately adjacent to the site, would be the only potential suitable habitat for this species. However, while this species may have historically been present in Bollinger Canyon Creek, it has disappeared from much of its historic habitat within Alameda and Contra Costa Counties during the past 40 years. The nearest documented occurrences of this species are more than ten miles from the site.
Western pond turtle <i>Emys marmorata</i>	CSC	Intermittent and permanent waterways that are either still or slow-moving including streams, marshes, rivers, ponds and lakes throughout much of California. Needs rocks/logs for basking and sandy banks or grassy open fields for egg laying.	<b>Unlikely.</b> The bank of Bollinger Canyon Creek, which is adjacent to the site, is very steep and would likely prevent a turtle from utilizing upland habitat. The nearest documented occurrence of this species is from 2000 along Bolinas Creek, approximately 1.5 mi west of the site.

Table 2. Special status wildlife species that could occur on the project site and vicinity (CDFW 2021).

<i>California Species of Special Concern and Protected Species</i>			
Common and scientific names	Status	General habitat description	*Occurrence in the study area
Northern California legless lizard <i>Anniella pulchra pulchra</i>	CSC	Occurs mostly underground in warm moist areas with loose soil and substrate. Habitats including sparsely vegetated areas of beach dunes, chaparral, pine-oak woodlands, desert scrub, sandy washes, and stream terraces with sycamores, cottonwoods, or oaks.	<b>Absent.</b> Sandy washes preferred by this species are absent from the site. The nearest documented occurrence of this species is more than fourteen miles northeast of the site.
Coast horned lizard <i>Phrynosoma blainvillii</i>	CSC	Grasslands, scrublands, oak woodlands, etc. of central California. Common in sandy washes with scattered shrubs.	<b>Unlikely.</b> The site provides marginal to poor habitat for this species. The nearest documented occurrence of this species is more than eight miles northeast of the site.
White-tailed kite <i>Elanus leucurus</i>	CP	Open grasslands and agricultural areas throughout central California.	<b>Unlikely.</b> Suitable foraging and nesting habitat are absent from the project site.
Northern harrier <i>Circus cyaneus</i>	CSC	Frequents meadows, grasslands, open rangelands, freshwater emergent wetlands; uncommon in wooded habitats.	<b>Unlikely.</b> Suitable foraging and nesting habitat are absent from the project site.
Golden eagle <i>Aquila chrysaetos</i>	CP	Typically frequents rolling foothills, mountain areas, woodland areas, sage-juniper flats, and desert habitats.	<b>Possible.</b> Although the project site provides some foraging habitat for this species, it is quite small in area, and there is a lack of suitable breeding habitat present. Golden eagle nests were not observed during the August 2021 survey, but they are known to occupy a nest site approximately 6.5 miles southeast of the site.
Burrowing owl <i>Athene cunicularia</i>	CSC	Frequents open, dry annual or perennial grasslands, deserts, scrublands, and ruderal areas characterized by low growing vegetation. Dependent upon burrowing mammals, most notably the California ground squirrel, for nest burrows.	<b>Unlikely.</b> This species has been documented within three miles of the site. While not abundant, a few small mammal burrows are scattered throughout the woodland portion of the site. However, the height of the vegetation significantly degrades the quality of the habitat for BUOW. Furthermore, the surrounding area is developed.
California yellow warbler <i>Dendroica petechia brewsteri</i>	CSC	Nests in riparian thickets, especially in alders, willows, and cottonwoods. May also utilize chaparral/scrubland.	<b>Possible.</b> Potentially suitable breeding and foraging habitat for this species is present on the study area, particularly in the riparian woodlands.

Table 2. Special status wildlife species that could occur on the project site and vicinity (CDFW 2021).

<i>California Species of Special Concern and Protected Species</i>			
Common and scientific names	Status	General habitat description	*Occurrence in the study area
Tricolored blackbird <i>Agelaius tricolor</i>	CSC	Breeds near fresh water, primarily emergent wetlands, with tall thickets, typically of cattails or bulrushes. Forages in nearby grassland and cropland habitats.	<b>Unlikely.</b> The riparian woodlands provide marginal to poor nesting habitat for this species. The nearest documented occurrence of this species is approximately 5 miles east of the site.
Pallid bat <i>Antrozous pallidus</i>	CSC	Occurs in grasslands, chaparral, woodlands, and forests; most common in dry rocky open areas providing roosting opportunities. Roost sites include caves, mines, rock crevices, and large cavities of trees.	<b>Possible.</b> Potential foraging habitat is present on the site, but their preferred roosting habitat is absent.
Townsend's big-eared bat <i>Corynorhinus townsendii</i>	CSC	Primarily a cave-dwelling bat that may also roost in buildings, bridges, rock crevices, and hollow trees. Occurs in a variety of habitats.	<b>Possible.</b> Potential foraging habitat is present on the site, but there is a lack of structures suitable for roosting.
Western red bat <i>Lasiurus blossevillii</i>	CSC	Roosts primarily in trees, although will occasionally use caves. Prefers habitat edges and mosaics with trees.	<b>Possible.</b> Potential foraging and roosting habitat are present in the oak woodland, though none were observed during the survey. The nearest documented occurrence of this species is from 1998, approximately 8 mi northeast of the site.
Western mastiff bat <i>Eumops perotis californicus</i>	CSC	Frequents open, semi-arid to arid habitats, including conifer, and deciduous woodlands, coastal scrub, grasslands, palm oasis, chaparral and urban. Requires tall locations for roosting in cliff faces, high buildings, trees and tunnels.	<b>Possible.</b> Potential foraging habitat is present on the site, but there is a lack of structures suitable for roosting.
San Francisco dusky-footed woodrat <i>Neotoma fuscipes annectens</i>	CSC	Hardwood forests, oak riparian and shrub habitats.	<b>Unlikely.</b> Woodrat nests were not present in the oak woodland or riparian woodland at the time of the August 2021 survey, but the riparian woodlands on the study area provide some suitable habitat for this species. The nearest documented occurrence of this species is more than 6 miles south of the site, and given that the area south of the site is largely developed, dispersal onto the site is unlikely.

**Table 2. Special status wildlife species that could occur on the project site and vicinity (CDFW 2021).**

<i>California Species of Special Concern and Protected Species</i>			
Common and scientific names	Status	General habitat description	*Occurrence in the study area
American badger <i>Taxidea taxus</i>	CSC	Drier open stages of most shrub, forest and herbaceous habitats with friable soils, specifically grassland environments. Natal dens occur on slopes.	<b>Unlikely.</b> The site would not be considered suitable habitat for this species because it is completely surrounded by development.

**\*Explanation of Occurrence Designations and Status Codes**

- Present: Species observed on the Project Site at time of field surveys or during recent past.
- Likely: Species not observed on the Project Site, but it may reasonably be expected to occur there on a regular basis.
- Possible: Species not observed on the Project Site, but it could occur there from time to time.
- Unlikely: Species not observed on the Project Site, and would not be expected to occur there except, perhaps, as a transient.
- Absent: Species not observed on the Project Site and precluded from occurring there because habitat requirements not met.

**STATUS CODES**

- |      |   |     |   |
|------|---|-----|---|
| FE   | Federally Endangered  | CE  | California Endangered                                       |
| FT   | Federally Threatened  | CT  | California Threatened                                       |
| FPE  | Federally Endangered (Proposed)   | CR  | California Rare   |
| FC   | Federal Candidate   | CP  | California Protected  |
|      |   | CTC | California Threatened (Candidate)                           |
|      |   | CSC | California Species of Special Concern                       |
| CRPR | California Rare Plant Rank  |     |   |
| 1A   | Plants Presumed Extinct in California   | 3   | Plants about which we need more information – a review list |
| 1B   | Plants Rare, Threatened, or Endangered in California and elsewhere              | 4   | Plants of limited distribution – a watch list               |
| 2    | Plants Rare, Threatened, or Endangered in California, but more common elsewhere |     |   |

**2.5 DESIGNATED CRITICAL HABITAT**

The USFWS often designates areas of critical habitat when it lists species as threatened or endangered. Critical habitat is a specific geographic area(s) that contains features essential for the conservation of a threatened or endangered species and that may require special management and protection.

There is no designated critical habitat for any species on or adjacent to the project site (Figure 4). Critical habitat for Alameda whipsnake is located approximately 0.1 mi north and 0.2 mi east of the site.

**2.6 SENSITIVE NATURAL COMMUNITIES**

California contains a wide range of natural communities, or unique assemblages of plants and animals. These communities have largely been classified and mapped by CDFW as part of its natural heritage program. Natural communities are assigned state and global ranks according to their rarity and the magnitude and trend of the threats they face. Natural communities with a state rank of 1-3 (on a 1-5 scale) are considered sensitive and must be considered in CEQA review. Examples of sensitive natural communities include various types of wetlands and riparian habitat.

Riparian woodlands are considered a sensitive natural community by CDFW based on their range, limited distribution, rarity, and threats from development (CDFW 2021). A small area of riparian woodland associated with Bollinger Canyon Creek is present in the southeast corner of the site (Figure 3).

## 2.7 WILDLIFE MOVEMENT CORRIDORS

Wildlife movement corridors are areas where regional wildlife populations regularly and predictably move during dispersal or migration. Landscape linkages refer to areas that allow for the movement of wildlife and plant species from a specific area of suitable habitat to another (Ament et al. 2014). A linkage can vary from a narrow strip of habitat that functions as a conduit for movement (i.e., a corridor) to a large area of intact habitat that can allow for daily travel by animals throughout their home ranges, accommodate migration to support life history needs (e.g., breeding or foraging), support genetic diversity, and provide ability for species to adapt to climate change (Nathan et al. 2008). Many landscape linkages are broad areas of regional movement corridors for wildlife that generally include a wide swath of land used for movement between two or more core areas for multiple regional species (Bastille-Rousseau and Wittemyer 2020).

Landscape linkages are vital to terrestrial animals for connectivity between core habitat areas (i.e., larger intact habitat areas where species carry out their life cycle). Connections between two or more core habitat areas help ensure that genetic diversity is maintained, thereby diminishing the probability of inbreeding depression and geographic extinctions. Linkages between core habitat areas allow wildlife to access key locations containing diverse biological resources essential for survival and maintenance of their life cycles.

In California, movement corridors are typically associated with valleys, rivers and creeks supporting riparian vegetation, and ridgelines. Corridors containing higher-quality habitat have minimal human footprints (e.g., roads and buildings) and are preferable to wildlife over corridors supporting little cover (i.e., sparse vegetation) and development (e.g., high-density roads).

The importance of an area as a movement corridor depends on the wildlife species being considered and their consistent use patterns. Animal movements generally can be divided into three major behavioral categories:

- Movements within a home range or territory;
- Movements during migration; and
- Movements during dispersal.

Lands east of the site have been intensively developed with residential and commercial development, and Hwy 680 is approximately one mile east of the site. Lands immediately to the north and south of the site have also been developed with roads, residences, and office buildings. These factors greatly constrain, but do not completely impede, the movement of wildlife between the site and more open lands in these directions.

West of Bollinger Canyon Road, Bollinger Canyon Creek is a wildlife corridor that can facilitate regional wildlife movements between this area and Las Trampas and Rocky Ridges, located in Las Trampas Regional Wilderness approximately five miles to the northwest. A short reach of



Bollinger Canyon Creek, which runs along the site's southern boundary, is crossed by Bollinger Canyon Road 0.06 mi west of the site and by Crow Canyon Road 0.04 mi south of the site. These breaks in creek corridor connectivity inhibit the ability of wildlife to access the site or, should wildlife incidentally occur on the site, to disperse back to open lands. Wildlife adapted to urban environments may move along the creek into urban San Ramon. In general, however, animals would be expected to disperse back towards the open lands to the west.

Existing development on and around the site would deter through-movements of wildlife who are able to access the site. Movements on and across the site would generally occur in the woodlands in the southern part of the site.

## **2.8 JURISDICTIONAL WATERS**

Jurisdictional waters include rivers, creeks, and drainages that have a defined bed and bank and which, at the very least, carry ephemeral flows. Jurisdictional waters also include, but are not limited to, lakes, ponds, reservoirs, and wetlands. Such waters may be subject to the regulatory authority of the U.S. Army Corps of Engineers (USACE), the California Department of Fish and Wildlife (CDFW), and the California Regional Water Quality Control Board (RWQCB).

Bollinger Canyon Creek is a known water of the U.S. and State and occurs offsite along the site's southern boundary. No jurisdictional waters or wetlands are present on the site itself.

### 3 REGULATORY FRAMEWORK

This section discusses the regulatory framework within which the project must be implemented. This includes a summary of the federal, state, and local laws regulating biological resources and any other environmental policies and plans relevant to this analysis.

#### 3.1 CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

In California, any project carried out or approved by a public agency that will result in a direct or reasonably foreseeable indirect physical change in the environment must comply with CEQA. The purpose of CEQA is to ensure that a project's potential impacts on the environment are evaluated, and methods for avoiding or reducing these impacts are considered, before the project is allowed to move forward. A secondary aim of CEQA is to provide justification to the public for the approval of any projects involving significant impacts on the environment.

According to *2019 CEQA Status and Guidelines (2019)*, a significant effect on the environment means "a substantial, or potentially substantial, adverse change in any of the physical conditions within the area affected by the project including land, air, water, minerals, flora, fauna, ambient noise, and objects of historic or aesthetic interest." Although the lead agency may set its own CEQA significance thresholds, project impacts to biological resources are generally considered to be significant if they would meet any of the following criteria established in Appendix G of the CEQA Guidelines:

- Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service;
- Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service;
- Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means;
- Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites;
- Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance; and
- Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

Furthermore, CEQA Guidelines Section 15065(a) states that a project may trigger the requirement to make a "mandatory findings of significance" if the project has the potential to:

- Substantially degrade the quality of the environment; substantially reduce the habitat of a fish or wildlife species; cause a fish or wildlife population to drop below self-sustaining levels; threaten to eliminate a plant or animal community; substantially reduce the number or restrict the range of an endangered, rare or threatened species; or eliminate important examples of the major periods of California history or prehistory.
- Achieve short-term environmental goals to the detriment of long-term environmental goals.
- Produce environmental effects that are individually limited but cumulatively considerable, meaning that the incremental effects of the project are significant when viewed in connection with the effects of past projects, other current projects, and probable future projects.
- Produce environmental effects that cause substantial adverse effects on human beings, either directly or indirectly.

### **3.2 THREATENED AND ENDANGERED SPECIES**

State and federal “endangered species” legislation has provided the CDFW and USFWS with a mechanism for conserving and protecting plant and animal species of limited distribution and/or low or declining populations. Species listed as threatened or endangered under provisions of the state and federal Endangered Species Acts, candidate species for such listing, state species of special concern, and some plants listed as endangered by the California Native Plant Society are collectively referred to as “species of special status.” Permits may be required from both the CDFW and USFWS if activities associated with a proposed project will result in the take of a listed species. To “take” a listed species, as defined by the state of California, is “to hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture or kill” said species (California Fish and Game Code, Section 86). “Take” is more broadly defined by the federal Endangered Species Act to include “harm” of a listed species (16 USC, Section 1532(19), 50 CFR, Section 17.3). Furthermore, the CDFW and the USFWS are responding agencies under CEQA. Both agencies review CEQA documents to determine the adequacy of their treatment of endangered species issues and to make project-specific recommendations for their conservation.

### **3.3 MIGRATORY BIRDS**

State and federal laws also protect most bird species. The State of California signed Assembly Bill 454 into law in 2019, which clarifies native bird protection and increases protections where California law previously deferred to Federal law. The Federal Migratory Bird Treaty Act (FMBTA: 16 U.S.C., scc. 703, Supp. I, 1989) prohibits killing, possessing, or trading in migratory birds, except in accordance with regulations prescribed by the Secretary of the Interior. This act encompasses whole birds, parts of birds, and bird nests and eggs.

### **3.4 BIRDS OF PREY**

Birds of prey are protected in California under provisions of the State Fish and Game Code, Section 3503.5, which states that it is “unlawful to take, possess, or destroy any birds in the order Falconiformes or Strigiformes (birds of prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto.” Construction disturbance during the breeding season could result in the incidental loss

of fertile eggs or nestlings, or otherwise lead to nest abandonment. Disturbance that causes nest abandonment and/or loss of reproductive effort is considered “taking” by the CDFW.

Additionally, the Bald and Golden Eagle Protection Act (16 U.S.C., sec. 668-668c) prohibits anyone from taking bald or golden eagles, including their parts, nests, or eggs, unless authorized under a federal permit. The act prohibits any disturbance that directly affects an eagle or an active eagle nest as well as any disturbance caused by humans around a previously used nest site during a time when eagles are not present such that it agitates or bothers an eagle to a degree that interferes with or interrupts normal breeding, feeding, or sheltering habits, and causes injury, death or nest abandonment.

### **3.5 BATS**

Section 2000 and 4150 of the California Fish and Game Code states that it is unlawful to take or possess a number of species, including bats, without a license or permit, as required by Section 3007. Additionally, Title 14 of the California Code of Regulations states it is unlawful to harass, herd, or drive a number of species, including bats. To harass is defined as “an intentional act which disrupts an animal's normal behavior patterns, which includes, but is not limited to, breeding, feeding or sheltering.” For these reasons, bat colonies in particular are considered to be sensitive and therefore, disturbances that cause harm to bat colonies are unlawful.

### **3.6 JURISDICTIONAL WATERS AND WETLANDS**

Jurisdictional waters include waters of the United States subject to the regulatory authority of the U.S. Army Corps of Engineers (USACE) and waters of the State of California subject to the regulatory authority of the California Department of Fish and Wildlife (CDFW) and the California Regional Water Quality Control Board (RWQCB).

#### **3.6.1 Clean Water Act, Section 404**

The USACE regulates the filling or grading of Waters of the U.S. under the authority of Section 404 of the Clean Water Act. Drainage channels and adjacent wetlands may be considered “waters of the United States” or “jurisdictional waters” subject to the jurisdiction of the USACE. The extent of jurisdiction has been defined in the Code of Federal Regulations and clarified in federal courts.

The definition of waters of the U.S. have changed several times in recent years. In January 2020, the Environmental Protection Agency (EPA) and USACE jointly issued the Navigable Waters Protection Rule. The new rule was published in the Federal Register on April 21, 2020, and took effect on June 22, 2020.

On August 30, 2021, the U.S. District Court for the District of Arizona issued an order vacating and remanding the Navigable Waters Protection Rule. In light of this order, the EPA and USACE have halted implementation of the Navigable Waters Protection Rule and are interpreting “waters of the United States” consistent with the pre-2015 regulatory regime until further notice.

The pre-2015 regulatory regime defines waters of the U.S. as:

1. All waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide;
2. All interstate waters including interstate wetlands;
3. All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation or destruction of which could affect interstate or foreign commerce including any such waters:
  - a. Which are or could be used by interstate or foreign travelers for recreational or other purposes; or
  - b. From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
  - c. Which are used or could be used for industrial purposes by industries in interstate commerce;
4. All impoundments of waters otherwise defined as waters of the United States under this definition;
5. Tributaries of waters identified in paragraphs (s)(1) through (4) of this section;
6. The territorial sea;
7. Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (s)(1) through (6) of this section; waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA (other than cooling ponds as defined in 40 CFR 423.11(m) which also meet the criteria of this definition) are not waters of the United States.

All activities that involve the discharge of dredge or fill material into waters of the U.S. are subject to the permit requirements of the USACE under Section 404 of the Clean Water Act. Such permits are typically issued on the condition that the applicant agrees to provide mitigation that result in no net loss of wetland functions or values. No permit can be issued without a CWA Section 401 Water Quality Certification (or waiver of such certification) verifying that the proposed activity will meet state water quality standards (Section 3.6.2).

### **3.6.2 Porter-Cologne Water Quality Act/Clean Water Act, Section 401**

There are nine Regional Water Quality Control Boards (RWQCB) statewide; collectively, they oversee regional and local water quality in California. The RWQCB administers Section 401 of the Clean Water Act and the Porter-Cologne Water Quality Control Act. The RWQCB for a given region regulates discharges of fill or pollutants into waters of the State through the issuance of various permits and orders.

Pursuant to Section 401 of the Clean Water Act, the RWQCB regulates waters of the State that are also waters of the U.S. Discharges into such waters require a Section 401 Water Quality Certification from the RWQCB as a condition to obtaining certain federal permits, such as a Clean

Water Act Section 404 permit (Section 3.6.1). Discharges into all Waters of the State, even those that are not also Waters of the U.S., require Waste Discharge Requirements (WDRs), or a waiver of WDRs, from the RWQCB.

The Porter-Cologne Water Quality Control Act, Water Code Section 13260, requires that “any person discharging waste, or proposing to discharge waste, within any region that could affect the ‘waters of the State’ to file a report of discharge” with the RWQCB. Waters of the State as defined in the Porter-Cologne Act (Water Code Section 13050[e]) are “any surface water or groundwater, including saline waters, within the boundaries of the state.” This gives the RWQCB authority to regulate a broader set of waters than the Clean Water Act alone; specifically, in addition to regulating waters of the U.S. through the Section 401 Water Quality Certification process, the RWQCB also claims jurisdiction and exercises discretionary authority over “isolated waters,” or waters that are not themselves waters of the U.S. and are not hydrologically connected to waters of the U.S.

The RWQCB also administers the Construction Stormwater Program and the federal National Pollution Discharge Elimination System (NPDES) program. Projects that disturb one or more acres of soil must obtain a Construction General Permit under the Construction Stormwater Program. A prerequisite for this permit is the development of a Stormwater Pollution Prevention Plan (SWPPP) by a certified Qualified SWPPP Developer. Projects that discharge wastewater, stormwater, or other pollutants into a Water of the U.S. may require a NPDES permit.

### **3.6.3 California Fish and Game Code, Section 1602**

The CDFW has jurisdiction over the bed and bank of natural drainages and lakes according to provisions of Section 1602 of the California Fish and Game Code. Activities that may substantially modify such waters through the diversion or obstruction of their natural flow, change or use of any material from their bed or bank, or the deposition of debris require a Notification of Lake or Streambed Alteration. If the CDFW determines that the activity may adversely affect fish and wildlife resources, a Lake or Streambed Alteration Agreement will be prepared. Such an agreement typically stipulates that certain measures will be implemented to protect the habitat values of the lake or drainage in question.

## **3.7 CITY OF SAN RAMON POLICIES AND ORDINANCES**

The City has enacted various provisions in its Municipal Code that address biological resources. Of particular relevance for the subject property are the following provisions relating to tree protection and creek setbacks.

### **3.7.1 Tree Protection Ordinance**

The City of San Ramon requires a tree removal permit for the relocation, removal, cutting down, or other act that causes the destruction of a protected tree; for the issuance of building or grading permits that result in the removal of a protected tree; and for approval of discretionary projects that result in the removal of a protected tree (D5-8 of the City’s Municipal Code). A protected tree is defined as:

1. A native oak tree with a diameter of six or more inches as measured 54 inches above the ground.

2. A heritage, or landmark tree or grove identified by City Council Resolution.
3. Significant groves or stands of trees identified by City Council Resolution.
4. A tree required to be planted, relocated, or preserved that is specifically identified as a condition of approval for a Tree Removal Permit or other discretionary permit, and/or as environmental mitigation for a discretionary permit.
5. A tree within 100 feet of a perennial stream, or within 50 feet of a seasonal stream that is six inches or more in diameter as measured at 54 inches above the ground.
6. A mature tree other than those listed above, that is eight inches or more in diameter as measured at 54 inches above the ground that is not otherwise exempt from the requirement [elsewhere in the Municipal Code]. (D5-8 of the City's Municipal Code)

The following trees are not considered protected trees: willow tree, fruit tree, eucalyptus tree, alder tree, cottonwood tree, pine tree, redwood tree, or similar ornamental tree, as determined by the City.

In general, the granting of a tree removal permit is conditioned upon the replacement of trees in kind at ratios set forth within the ordinance. To the maximum extent practicable, removed trees should be replaced with trees of the same species, and replacement trees should be planted onsite (D5-10 of the City's Municipal Code).

### **3.7.2 Creek Setback Ordinance**

The City of San Ramon's zoning ordinance includes a creek setback, whereby "no habitable structure shall be located within 100 feet of the centerline of a creek or stream channel identified in General Plan 2030 Figure 8-3 (Resource Management) plus any additional horizontal distance to be determined by an approved drainage report; provided that no habitable structure shall be located midslope or within the 100 year flood plain plus one foot of free board" (D5-4 of the City's Municipal Code).

Additionally, C6-143 of the City's Municipal Code prohibits the "[destruction or significant alteration] of riparian or bank-stabilizing vegetation, including without limitation cutting, clearing, grubbing, burning, removing, excavating or grading, except as is necessary to maintain the hydraulic capacity of the watercourse."

### **3.8 HABITAT CONSERVATION PLANS**

No known habitat conservation plans are in effect for this property.

## 4 BIOLOGICAL CONSTRAINTS

This analysis assumes that the northern 2.61 ac of the 4.43-acre site will be developed with 53 townhomes and associated infrastructure as described in Section 1.3 of this report. The southern portion of the site is proposed to remain undeveloped except for the upper slope extending approximately 20 ft out from the edge of existing development, in part due to the steep hillslope in this area. A retaining wall is proposed to be constructed on this upper slope along the extended development edge to stabilize the slope and support construction in the developable area.

### 4.1 OVERVIEW OF SPECIAL STATUS SPECIES

Although the southern portion of the property is undeveloped, its limited size and proximity to the existing office building and paved areas, which are still utilized by the public, significantly reduces its habitat value and function with respect to hosting special status species. Moreover, there is evidence that the undeveloped portion of the site is occasionally used by neighboring or unhoused persons, which would further deter sensitive species from using the site. The property is also located in an area of San Ramon that has already experienced intensive residential and commercial development. With limited availability of undisturbed habitat in the vicinity, the Deerwood Drive property has low potential to support special status species and other sensitive biological resources and relatively low potential for adverse effects to biological resources overall.

#### 4.1.1 Special Status Plants

All but one of the special status plant species known to occur in the region are considered either absent or unlikely to occur onsite for the following reasons: 1) the site lacks habitat to support the occurrence of such species, 2) the species has been extirpated and has not been observed in the site's vicinity for many decades, 3) there are no known populations in the site's vicinity (i.e., within a three-mile radius of the site), and/or 4) the species was ruled out via a field survey conducted in August 30, 2021 (Table 1). Therefore, eventual site development would not be constrained by the presence of these special status plants.

One species, *Diablo helianthella*, may occur in oak woodlands within the grading envelope and could constrain development, which is discussed further in Section 4.4.1.

#### 4.1.2 Special Status Wildlife

Most of the special status animal species known to occur in the region would not constrain future site construction because habitats on the site are not suitable for them or the site is located outside of the species' known range (Table 2). Seven special status animal species may occur on the site. These include the golden eagle (possible foraging habitat), yellow warbler (possible nesting and foraging habitat), western red bat (possible foraging and nesting habitat), western mastiff bat (possible foraging habitat), Townsend's big-eared bat, pallid bat (possible foraging habitat) and California red-legged frog (possible habitat). If these species do occur onsite, they would be in the undeveloped portion of the site and away from areas of construction. Occurrences in this portion of the site would likely allow for suitable buffers from active



construction to be established. Section 4.5 discusses these special status species in more detail along with the level of constraint that these species may pose on the project.

## **4.2 OVERVIEW OF LEVELS OF CONSTRAINTS**

Since the project proposes that construction would mostly be limited to the already developed portion of the site, impacts to biological resources should be minimal. Table 3 summarizes the level of constraint each biological resource may have on the project and the mitigation strategies that would need to be employed if a particular biological resource occurs on the site. Our determination for the level of constraint is based on the likelihood for the biological resource to occur on the site, the effect of the constraint on the project (e.g., construction delays), and the mitigation strategies to avoid and lessen impacts to a less than significant level.

The highest level of constraint includes those biological resources where the cost of mitigation could be high or where adverse effects could be so significant that the City may reject the project. LOA has not identified biological resources posing a high constraint for this site.

The medium level of constraint includes those biological resources that require permits or where compensatory mitigation may be necessary. We expect the cost of this compensation will be moderate but could constrain the project design. The potential presence of special status plant species poses a medium level of constraint to the project.

The lowest level of constraint includes those biological resources that would either be unlikely to occur onsite or, if they occurred, standard avoidance and minimization measures would satisfactorily resolve the issue. We expect the cost of these actions to be relatively low and would be considered typical expected constraints that may affect construction timing. The potential presence of certain wildlife species and tree removal pose low levels of constraints to the project.

**Table 3. Summary of potential biological constraints for the project site.**

Biological Resource	Occurrence*	Level of Constraint	Mitigation Strategies and Constraint Effect on the Project	Agencies Involved**
Special status plants	Possible	Medium	Rare plant survey. Compensatory mitigation.	CDFW
Tree removal	Present	Medium	Compliance with city's tree ordinance.	City of San Ramon
California red-legged frog	Unlikely	Low	Possible permitting, preconstruction surveys, monitoring, and other avoidance or minimization measures	USFWS and CDFW
San Francisco dusky-footed woodrat	Unlikely	Low	Preconstruction surveys, monitoring, and other avoidance or minimization measures. Project delays could occur.	CDFW
Nesting migratory birds and raptors	Possible	Low	Preconstruction surveys, monitoring, and other avoidance or minimization measures. Project delays could occur.	USFWS, CDFW
Roosting bats	Possible	Low	Habitat assessment and preconstruction surveys. Project delays could occur.	CDFW
Regulated habitats: Jurisdictional waters	Present	Low	None.	CDFW
Bollinger Canyon Creek	Present	Low	Compliance with city's creek setback ordinance.	City of San Ramon

**\*Explanation of Occurrence Designations**

Present: Biological resource identified or observed on the sites at time of field surveys or during recent past.

Likely: Biological resource not observed on the site, but it may reasonably be expected to occur there on a regular basis.

Possible: Biological resource not observed on the site, but it could occur there from time to time.

Unlikely: Biological resource not observed on the site, not expected to occur there except, perhaps, as a transient.

Absent: Biological resource not observed on the site, precluded from occurring there because habitat requirements not met.

**\*\*Agencies include:**

CDFW – California Department of Fish and Wildlife

USFWS – United States Fish and Wildlife Service

RWQCB – Regional Water Quality Control Board

USACE – United States Army Corps of Engineers

**4.3 HIGH LEVEL OF CONSTRAINT**

LOA has not identified biological resources that pose a high-level constraint to the project.

**4.4 MEDIUM LEVEL OF CONSTRAINT****4.4.1 Special Status Plants**

The potential presence of Diablo helianthella could not be ruled out during the August 2021 field survey because it occurred outside of the species' blooming period (i.e., March through June). Because the presence of this species within the grading footprint could constrain development, an appropriately-timed, focused rare plant survey (i.e., during the species' blooming period, when it would be identifiable) should be completed to determine if this species is present and to map the extent of any extant populations on the site. The botanical survey should follow protocols outlined in the *CNPS Botanical Survey Guidelines* (CNPS 2001) and the California

Department of Fish and Wildlife's (2018) *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities*.

If rare plant surveys determine that one or more populations of this species are present within the grading footprint, then development could be constrained around these populations if impacts are determined to be significant. If the populations cannot be avoided, then measures would need to be taken to minimize impacts, and compensation for the loss of individuals would need to occur. Such measures may include the development of an onsite restoration plan to relocate or replace the plants and habitat lost during project buildout.

#### **4.4.2 Tree Removal**

A formal tree survey of the entire site was completed in September 2021 by LOA, at which time the species, location, diameter at 54 inches above grade, health and structural condition, and suitability for preservation of all trees on and adjacent to the site were recorded. An estimated 116 trees were surveyed in total; approximately 45 of these trees occur as part of the office landscaping, and the remaining trees occur in the oak and riparian woodlands.

Protected Trees. At least twelve trees occurring on the upper slope of the coast live oak woodland are estimated to be removed to accommodate the installation of the retaining wall. Additional trees not identified for removal may be negatively impacted from construction of the retaining wall, the deposition of fill material to bring the slope up to the existing development grade, and soil compaction. Such actions could result in tree injuries, including root or canopy damage, root suffocation from compaction, or an overall decline in tree health and vigor. All of the trees in the coast live oak woodland are native trees, and all are expected to be considered protected trees as defined by the City. Most of the trees anticipated for removal are coast live oaks.

Tree removal and preservation should occur pursuant to the City of San Ramon's tree ordinance (Section 3.7.1) and according to the recommendations that will be set forth in the preliminary arborist report. The replacement of removed trees will be required as part of the City's tree removal permit conditions. The City has specific tree replacement-to-removal ratios depending on the species and size of the tree being removed.

The intent of the City's tree protection ordinance is not only to address the loss of native trees but to mitigate for the loss of habitat values provided by oak woodlands and other woodland types. Therefore, it is expected that the City will require that replacement trees be planted onsite to the maximum extent practicable. If onsite tree replacement is not fully feasible, the City may allow for alternative forms of mitigation, including tree replacement at a suitable offsite location, implementation of a revegetation plan, or the payment of an in-lieu fee into the City's Oak Tree Propagation Fund or Non-native Tree Fund.

Landscape/Ornamental Trees. All of the landscape and ornamental trees on the site (i.e., around the office building) are expected to be removed as part of site redevelopment. As of the writing of this report, it is anticipated that none of these trees qualify as a protected tree under the City's tree protection ordinance (Section 3.7.1). Therefore, removal of these trees is not anticipated to require mitigation and would not be expected to constrain project development. However, these trees should still be surveyed for the presence of nesting birds (Section 4.5.2).

Should it be determined that one or more landscape tree qualifies as a protected tree as defined by the City, then the replacement of any such removed trees should follow the City's tree replacement specifications.

#### **4.5 LOW LEVEL OF CONSTRAINTS**

##### **4.5.1 California Red-legged Frog (CRLF)**

CRLF are known to occur in Bollinger Canyon Creek and Crow Creek drainage, although they have not been documented in urban reaches of the creek in the vicinity of the site. The site is not designated as critical habitat by the USFWS.

The small area of riparian woodlands occurring onsite does offer some marginal upland habitat that could be used by CRLF for escape cover and foraging. However, since construction is expected to occur more than 150 ft laterally and upslope from the riparian woodland habitat, it is highly unlikely that CRLF would venture near the development grading envelope. Thus, the proposed project is not expected to be constrained by the possible presence of CRLF in the creek.

If project plans change such that construction occurs in the southernmost part of the site, it is our opinion that there would not be an adverse effect to CRLF so long as reasonable avoidance and minimization measures are taken to protect them and their habitat. Such measures could include, but would not be limited to, construction personnel training, pre-construction surveys, exclusion fencing, an onsite biological monitor during construction, and timing of construction to occur outside of the rainy season.

##### **4.5.2 Nesting Migratory Birds and Raptors**

The coast live oak and riparian woodlands on the study area serve as foraging habitat for raptors and migratory birds. Oaks and other trees within these habitats and larger, planted trees around the office building also provide potential nesting habitat for migratory birds. All nesting raptors and migratory birds, regardless of their status, are protected by state and federal laws. Therefore, construction activities that result in mortality of individual birds or adversely affect the nesting success of raptors and migratory birds (i.e., lead to the abandonment of active nests) constitute a violation of state and federal laws.

Project-related activities that occur during the breeding season could be constrained in the vicinity of any active nests. If tree removal, building demolition, or other ground disturbance activities are scheduled to commence during the breeding season (February 1 through August 31), preconstruction bird surveys should be conducted by a qualified biologist to identify possible nesting activity. A construction-free buffer of suitable dimensions must be established around any active raptor and migratory bird nests (up to 250 feet, depending on the location and species) for the duration of the project or until it has been determined that the chicks have fledged and are independent of their parents.

Because the protections and associated avoidance/minimization measures described above are applicable to all nesting migratory birds, including raptors, they serve as appropriate methods for the protection of special status birds that could occur onsite. These include California yellow warbler and golden eagle.

#### **4.5.3 Roosting Bats**

Bats could potentially roost in the oak woodland onsite where a dense canopy or cavities are present, which could constrain project-related activities in the vicinity of active roosts.

A habitat assessment of the onsite trees should be conducted by a qualified biologist prior to their removal. A night emergence survey may be necessary if the biologist is not able to physically access all potential roost areas for visual observation.

If a non-breeding or non-wintering bat colony is found, the individuals should be humanely evicted via the partial dismantlement (two-step removal) of the trees prior to their removal under the direction of a qualified biologist to ensure that no take would occur to any bats as a result of demolition activities.

If a maternity colony or overwintering colony is identified on the site, then a construction-free buffer should be established around the tree(s) and remain in place until it has been determined that the colony is no longer active. Tree removal should occur between March 1 and April 15 or between August 15 and October 15 to avoid interfering with an active nursery and/or overwintering bats.

#### **4.5.4 San Francisco Dusky-footed Woodrat**

The San Francisco dusky-footed woodrat is a state species of special concern, and while this species is unlikely to nest onsite (Table 2), the presence of San Francisco dusky-footed woodrat nests could constrain development in the vicinity of the nests. Any construction activity that results in harm or mortality to this species, or in nest abandonment, may be considered a significant impact under CEQA and a violation of state law.

A qualified biologist would likely need to conduct a preconstruction survey for San Francisco dusky-footed woodrat nests no more than 30 days prior to the onset of construction activities. This survey timing allows for the scheduling of and relocation of woodrat nests, if necessary. The survey should encompass all construction zones and surrounding lands within 50 feet.

Identified nests should be avoided, where possible. It is expected that avoidance should be very feasible, as most of the area where construction would occur is already developed and is unsuitable habitat for nests. Furthermore, the margin between the developed and coast live oak woodland habitats was well-surveyed and did not reveal any nests. If the project footprint were to further extend into the coast live oak woodland habitat, the chance of encountering a woodrat nest would increase. If avoidance of a nest is not possible, the nest(s) would need to be manually relocated when helpless young are not present, typically during the non-breeding season (October through January).

#### **4.5.5 Regulated Habitats: Jurisdictional Waters**

Proposed project build-out would not result in impacts to jurisdictional waters, associated riparian habitat, or wetlands. Therefore, the proposed project would not be constrained by the presence of jurisdictional waters.

#### **4.5.6 Creek Setback**

The project site is adjacent to Bollinger Canyon Creek. Redevelopment of the site will be consistent with the City's creek setback ordinance.

## 5 LITERATURE CITED

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## APPENDIX A: VASCULAR PLANTS OF THE STUDY AREA

The plants species listed below were observed on the site located at 2481 Deerwood Drive during the field survey conducted by Live Oak Associates on August 30, 2021. The wetland indicator status of each plant as listed in the U.S. Army Corps of Engineers 2018 National Wetland Plant list is shown following its common name (USACE 2018).

OBL - Obligate  
 FACW - Facultative Wetland  
 FAC - Facultative  
 FACU - Facultative Upland  
 UPL - Upland

<b>ACERACEAE – MAPLE FAMILY</b> <i>Acer macrophyllum</i>	Bigleaf maple	FAC
<b>ANACARDIACEAE – SUMAC FAMILY</b> <i>Toxicodendron diversilobum</i>	Poison oak	FACU
<b>APOCYNACEAE – DOGBANE FAMILY</b> <i>Nerium oleander*</i>	Oleander	UPL
<b>ARALIACEAE – GINSENG FAMILY</b> <i>Hedera helix*</i>	English ivy	FACU
<b>ASTERACEAE – SUNFLOWER FAMILY</b> <i>Baccharis pilularis</i>	Coyote brush	UPL
<i>Carduus pycnocephalus</i>	Italian thistle	UPL
<i>Centaurea solstitialis</i>	Yellow star thistle	UPL
<i>Pseudognaphalium luteoalbum*</i>	Everlasting cudweed	FAC
<i>Sonchus asper*</i>	Prickly sowthistle	FAC
<i>Taraxacum officinale*</i>	Common dandelion	FACU
<b>BETULACEAE – BIRCH FAMILY</b> <i>Alnus sp.</i>	Alder	FACW
<b>CAPRIFOLIACEAE – HONEYSUCKLE FAMILY</b> <i>Sambucus nigra ssp. caerulea</i>	Blue elderberry	FACU
<i>Symphoricarpos albus var. laevigatus</i>	Common snowberry	FACU
<b>FABACEAE – LEGUME FAMILY</b> <i>Acmispon americanus</i>	Spanish lotus	UPL
<i>Robinia pseudoacacia*</i>	Black locust	FACU
<i>Trifolium fragiferum*</i>	Strawberry clover	FAC
<b>FAGACEAE – OAK FAMILY</b> <i>Quercus agrifolia</i>	Coast live oak	UPL
<i>Quercus lobata</i>	Valley oak	FACU
<b>GERANIACEAE – GERANIUM FAMILY</b> <i>Geranium sp.*</i>	Ornamental geranium	UPL
<b>GROSSULARIACEAE – GOOSEBERRY FAMILY</b> <i>Escallonia rubra*</i>	Red claws	UPL



<b>HAMAMELIDACEAE –</b> <i>Liquidambar styraciflua*</i>	American sweet gum	UPL
<b>HIPPOCASTANACEAE – BUCKEYE FAMILY</b> <i>Aesculus californica</i>	California buckeye	UPL
<b>LAURACEAE – LAUREL FAMILY</b> <i>Umbellularia californica</i>	California bay	FAC
<b>LYTHRACEAE – LOOSESTRIFE FAMILY</b> <i>Lagerstroemia indica*</i>	Crape myrtle	UPL
<b>MYRSINACEAE – PRIMROSE FAMILY</b> <i>Lysimachia arvensis*</i>	Scarlet pimpernel	UPL
<b>ONAGRACEAE – EVENING PRIMROSE FAMILY</b> <i>Epilobium brachycarpum</i>	Panicled willowherb	FAC
<b>PINACEAE – PINE FAMILY</b> <i>Pinus sp.</i>	Pine	UPL
<b>PLATANACEAE – SYCAMORE FAMILY</b> <i>Platanus racemosa</i>	Western sycamore	FAC
<b>POACEAE - GRASS FAMILY</b> <i>Avena barbata*</i>	Slender wild oats	UPL
<i>Bromus diandrus</i>	Ripgut brome	UPL
<i>Phalaris sp.*</i>	Canary grass	FAC/FACU
<b>ROSACEAE – ROSE FAMILY</b> <i>Eriobotrya japonica*</i>	Loquat	UPL
<i>Prunus ilicifolia</i>	Hollyleaf cherry	UPL
<i>Pyrus calleryana*</i>	Callery pear	UPL
<i>Rubus ursinus</i>	California blackberry	FAC
<b>SALICACEAE – WILLOW FAMILY</b> <i>Salix laevigata</i>	Red willow	FACW

\*Non-native species

## APPENDIX B: PHOTOGRAPHS OF THE STUDY AREA



Photo 1. Office building, parking, and landscape vegetation.



Photo 2. Steep, southern hillslope with the coast live oak woodland and riparian corridor of Bollinger Canyon Creek in the middle ground.



# LIVE OAK ASSOCIATES, INC.

an Ecological Consulting Firm

June 10, 2022

Heide Antonescu  
Trumark Homes LLC  
3001 Bishop Drive, Suite 100  
San Ramon, CA 94583

**Subject: Rare plant survey results for the property located at 2481 Deerwood Drive in the City of San Ramon, California (PN 2613-03)**

Dear Ms. Antonescu:

Live Oak Associates, Inc. (LOA), has prepared this letter report discussing the results of a focused rare plant survey completed for the 4.43-acre site (APN 208-640-003-9) located at 2481 Deerwood Drive in the City of San Ramon, Contra Costa County.

Special status plants are plants designated as endangered, threatened, or rare under federal or state endangered species legislation. Additionally, the California Native Plant Society (CNPS), in collaboration with the California Department of Fish and Wildlife, has developed California Rare Plant Ranks (CRPR), which is a ranking system for defining and categorizing the rarity of flora in California.

In our 2021 biological constraints analysis report, we identified the undeveloped portion of the site as supporting potentially suitable habitat for the Diablo helianthella (*Helianthella castanea*), a California Rare Plant Rank 1B species (i.e., identified by the CNPS as rare, threatened, or endangered in California and elsewhere).

## Methods

Focused special status plant species surveys were conducted by LOA plant ecologists Davinna Ohlson and Arren Allegretti on May 27, 2022. These surveys were timed to coincide with the target species' known blooming period when they would be evident and most identifiable.

In summary, Ms. Ohlson and Dr. Allegretti walked both the grading limits of the proposed development and the remaining, undeveloped portion of the site, ensuring 100% visual coverage. All vascular plant species observed were recorded in a field notebook. The survey was floristic; all species were identified to the lowest taxonomic order or to the level of taxa needed to separate occurring species from the target special status species using the *Jepson Manual: Vascular Plants of California* (Baldwin et al. 2012) (Appendix A).

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Oakhurst: P.O. Box 2697 • 39930 Sierra Way, Suite B • Oakhurst, CA 93644 • Phone: (559) 642-4880 • Fax: (559) 642-4883

San Jose: 6840 Via Del Oro, Suite 220 • San Jose, CA 95119 • Phone: (408) 224-8300

Truckee: P.O. Box 8810 • Truckee, CA 96161 • Phone: (530) 214-8947

South Lake Tahoe: P.O. Box 7314 • South Lake Tahoe, CA 96158 • Phone: (408) 281-5885

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This survey methodology is consistent with survey protocols outlined in the *CNPS Botanical Survey Guidelines* (CNPS 2001) (Appendix B) and the California Department of Fish and Wildlife's (2018) *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities* (Appendix C).

### **Results**

No federal or state listed plant species were found on the site. The Diablo helianthella was not found on the site, nor were any plants found that could be confused with the Diablo helianthella. No other special status plant species were detected on the site during the survey or during previous site visits.

### **Discussion**

Because the Diablo helianthella was not found on the site, this species is presumed to be absent. Therefore, the proposed project would not result in impacts to this or any other special status plants, and mitigation measures would not be warranted.

If you have any questions regarding our conclusions, please contact me at (408) 658-8339 or via email at [dohlson@loainc.com](mailto:dohlson@loainc.com) at your convenience.

Sincerely,

A handwritten signature in blue ink that reads "Davinna Ohlson". The signature is written in a cursive style with a large initial 'D'.

Davinna Ohlson, M.S.  
Director of Ecological Services  
Plant Ecologist

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## APPENDIX A: VASCULAR PLANTS OF THE STUDY AREA

The plants species listed below were observed on the site located at 2481 Deerwood Drive during the field survey conducted by Live Oak Associates on August 30, 2021, and May 27, 2022. The wetland indicator status of each plant as listed in the U.S. Army Corps of Engineers 2020 National Wetland Plant list is shown following its common name (USACE 2020).

OBL - Obligate  
FACW - Facultative Wetland  
FAC - Facultative  
FACU - Facultative Upland  
UPL - Upland

### ACERACEAE – MAPLE FAMILY

*Acer macrophyllum* Bigleaf maple FAC

### AGAVACEAE – CENTURY PLANT FAMILY

*Chlorogalum pomeridianum* Common soaproot UPL

### ANACARDIACEAE – SUMAC FAMILY

*Toxicodendron diversilobum* Poison oak FACU

### APIACEAE – CARROT FAMILY

*Conium maculatum* Poison hemlock FACW

*Torilis arvensis\** Field hedge parsley UPL

### APOCYNACEAE – DOGBANE FAMILY

*Nerium oleander\** Oleander UPL

### ARALIACEAE – GINSENG FAMILY

*Hedera helix\** English ivy FACU

### ASTERACEAE – SUNFLOWER FAMILY

*Artemisia californica* California sagebrush UPL

*Artemisia douglasiana* Mugwort FAC

*Aster* sp. Aster -

*Baccharis pilularis* Coyote brush UPL

*Carduus pycnocephalus\** Italian thistle UPL

*Centaurea solstitialis\** Yellow star thistle UPL

*Helminthotheca echioides\** Bristly ox-tongue FAC

*Hemizonia congesta* ssp. *luzulifolia* Hayfield tarweed UPL

*Hypochaeris radicata\** Hairy cat's ear FACU

*Lactuca serriola\** Prickly lettuce FACU

*Pseudognaphalium luteoalbum\** Everlasting cudweed FAC

*Silybum marianum\** Milk thistle UPL

*Sonchus asper\** Prickly sowthistle FAC

*Taraxacum officinale\** Common dandelion FACU

### BETULACEAE – BIRCH FAMILY

*Alnus* sp. Alder -

### BRASSICACEAE – MUSTARD FAMILY

*Brassica nigra\** Black mustard UPL

<i>Hirschfeldia incana*</i>	Summer mustard	UPL
<b>CAPRIFOLIACEAE – HONEYSUCKLE FAMILY</b>		
<i>Lonicera hispidula</i>	Pink honeysuckle	FACU
<i>Sambucus nigra</i> ssp. <i>caerulea</i>	Blue elderberry	FACU
<i>Symphoricarpos albus</i> var. <i>laevigatus</i>	Common snowberry	FACU
<i>Symphoricarpos mollis</i>	Creeping snowberry	FACU
<b>CONVOVULACEAE- BINDWEED FAMILY</b>		
<i>Convolvulus arvensis</i>	Field bindweed	UPL
<b>FABACEAE – LEGUME FAMILY</b>		
<i>Acmispon americanus</i>	Spanish lotus	UPL
<i>Lupinus bicolor</i>	Annual lupine	UPL
<i>Medicago polymorpha*</i>	Bur clover	FACU
<i>Robinia pseudoacacia*</i>	Black locust	FACU
<i>Trifolium fragiferum*</i>	Strawberry clover	FAC
<i>Trifolium hirtum*</i>	Rose clover	UPL
<i>Vicia sativa*</i>	Spring vetch	FACU
<b>FAGACEAE – OAK FAMILY</b>		
<i>Quercus agrifolia</i>	Coast live oak	UPL
<i>Quercus lobata</i>	Valley oak	FACU
<b>GERANIACEAE – GERANIUM FAMILY</b>		
<i>Erodium botrys*</i>	Broad leaf filaree	FACU
<i>Geranium molle*</i>	Dove’s foot crane’sbill	UPL
<i>Geranium</i> sp.*	Ornamental geranium	UPL
<b>GROSSULARIACEAE – GOOSEBERRY FAMILY</b>		
<i>Escallonia rubra*</i>	Red claws	UPL
<b>HAMAMELIDACEAE –</b>		
<i>Liquidambar styraciflua*</i>	American sweet gum	FAC
<b>HIPPOCASTANACEAE – BUCKEYE FAMILY</b>		
<i>Aesculus californica</i>	California buckeye	UPL
<b>LAMIACEAE – MINT FAMILY</b>		
<i>Artemesia californica</i>	California sagebrush	UPL
<i>Artemesia douglasiana</i>	Mugwort	UPL
<b>LAURACEAE – LAUREL FAMILY</b>		
<i>Umbellularia californica</i>	California bay	FAC
<b>LILIACEAE- LILY FAMILY</b>		
<i>Chlorogalum pomeridianum</i>	Soap plant	UPL
<b>LYTHRACEAE – LOOSESTRIFE FAMILY</b>		
<i>Lagerstroemia indica*</i>	Crape myrtle	UPL
<b>MYRSINACEAE – PRIMROSE FAMILY</b>		
<i>Lysimachia arvensis*</i>	Scarlet pimpernel	FAC
<b>ONAGRACEAE – EVENING PRIMROSE FAMILY</b>		
<i>Epilobium brachycarpum</i>	Panicled willowherb	FAC
<b>PAPAVERACEAE – POPPY FAMILY</b>		
<i>Eschscholzia californica</i>	California poppy	UPL
<b>PINACEAE – PINE FAMILY</b>		

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<i>Pinus canariensis</i>	Canary Island pine	UPL
<b>PLATANACEAE – SYCAMORE FAMILY</b>		
<i>Platanus racemosa</i>	Western sycamore	FAC
<b>POACEAE - GRASS FAMILY</b>		
<i>Avena barbata*</i>	Slender wild oats	UPL
<i>Bromus diandrus</i>	Ripgut brome	UPL
<i>Bromus madritensis*</i>	Compact brome	UPL
<i>Elymus triticoides</i>	Beardless wildrye	UPL
<i>Festuca myuros*</i>	Rattail fescue	FACU
<i>Festuca perennis*</i>	Italian ryegrass	FAC
<i>Hordeum murinum*</i>	Foxtail barley	FACU
<i>Phalaris sp.*</i>	Canary grass	-
<i>Polypogon monspeliensis*</i>	Annual beardgrass	FACW
<i>Stipa pulchra</i>	Purple needlegrass	UPL
<b>POLYGONACEAE – BUCKWHEAT FAMILY</b>		
<i>Rumex pulcher*</i>	Fiddle dock	FAC
<b>ROSACEAE – ROSE FAMILY</b>		
<i>Eriobotrya japonica*</i>	Loquat	UPL
<i>Prunus ilicifolia</i>	Hollyleaf cherry	UPL
<i>Pyrus calleryana*</i>	Callery pear	UPL
<i>Rubus ursinus</i>	California blackberry	FAC
<b>RUBIACEAE – MADDER FAMILY</b>		
<i>Galium aparine*</i>	Common bedstraw	FACU
<b>SALICACEAE – WILLOW FAMILY</b>		
<i>Salix laevigata</i>	Red willow	FACW
<b>THEMIDACEAE – BRODIAEA FAMILY</b>		
<i>Brodiaea elegans</i>	Harvest brodiaea	FACU

\*Non-native species

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**APPENDIX B: CALIFORNIA NATIVE PLANT SOCIETY *BOTANICAL SURVEY*  
*GUIDELINES* (2001)**



# CNPS Botanical Survey Guidelines

CALIFORNIA NATIVE PLANT SOCIETY

December 9, 1983

Revised June 2, 2001

The following recommendations are intended to help those who prepare and review environmental documents determine when a botanical survey is needed, who should be considered qualified to conduct such surveys, how surveys should be conducted, and what information should be contained in the survey report. The California Native Plant Society recommends that lead agencies not accept the results of surveys unless they are conducted and reported according to these guidelines.

1. Botanical surveys are conducted in order to determine the environmental effects of proposed projects on all botanical resources, including special status plants (rare, threatened, and endangered plants) and plant (vegetation) communities. Special status plants are not limited to those that have been listed by state and federal agencies but include any plants that, based on all available data, can be shown to be rare, threatened, or endangered under the following definitions:

A species, subspecies, or variety of plant is "endangered" when the prospects of its survival and reproduction are in immediate jeopardy from one or more causes, including loss of habitat, change in habitat, over-exploitation, predation, competition, or disease. A plant is "threatened" when it is likely to become endangered in the foreseeable future in the absence of protection measures. A plant is "rare" when, although not presently threatened with extinction, the species, subspecies, or variety is found in such small numbers throughout its range that it may be endangered if its environment worsens.<sup>1</sup>

Rare plant (vegetation) communities are those communities that are of highly limited distribution. These communities may or may not contain special status plants. The most current version of the California Natural Diversity Database's *List of California Terrestrial Natural Communities*<sup>2</sup> should be used as a guide to the names and status of communities.

Consistent with the California Native Plant Society's goal of preserving plant biodiversity on a regional and local scale, and with California Environmental Quality Act environmental impact assessment criteria<sup>3</sup>, surveys should also assess impacts to locally significant plants. Both plants and plant communities can be considered significant if their local occurrence is on the outer limits of known distribution, a range extension, a rediscovery, or rare or uncommon in a local context (such as within a county or region). Lead agencies should address impacts to these locally unique botanical resources regardless of their status elsewhere in the state.

2. Botanical surveys must be conducted to determine if, or to the extent that, special status or locally significant plants and plant communities will be affected by a proposed project when any natural vegetation occurs on the site and the project has the potential for direct or indirect effects on vegetation.
3. Those conducting botanical surveys must possess the following qualifications:
  - a. Experience conducting floristic field surveys;
  - b. Knowledge of plant taxonomy and plant community ecology and classification;
  - c. Familiarity with the plants of the area, including special status and locally significant plants;

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<sup>1</sup> California Environmental Quality Act Guidelines, §15065 and §15380.

<sup>2</sup> List of California Terrestrial Natural Communities. California Department of Fish and Game Natural Diversity Database. Sacramento, CA.

<sup>3</sup> California Environmental Quality Act Guidelines, Appendix G (Initial Study Environmental Checklist).

- d. Familiarity with the appropriate state and federal statutes related to plants and plant collecting; and,
  - e. Experience with analyzing impacts of a project on native plants and communities.
4. Botanical surveys should be conducted in a manner that will locate any special status or locally significant plants or plant communities that may be present. Specifically, botanical surveys should be:
- a. Conducted in the field at the proper times of year when special status and locally significant plants are both evident and identifiable. When special status plants are known to occur in the type(s) of habitat present in the project area, nearby accessible occurrences of the plants (reference sites) should be observed to determine that the plants are identifiable at the time of survey.
  - b. Floristic in nature. A floristic survey requires that every plant observed be identified to species, subspecies, or variety as applicable. In order to properly characterize the site, a complete list of plants observed on the site shall be included in every botanical survey report. In addition, a sufficient number of visits spaced throughout the growing season is necessary to prepare an accurate inventory of all plants that exist on the site. The number of visits and the timing between visits must be determined by geographic location, the plant communities present, and the weather patterns of the year(s) in which the surveys are conducted.
  - c. Conducted in a manner that is consistent with conservation ethics and accepted plant collection and documentation techniques<sup>4,5</sup>. Collections (voucher specimens) of special status and locally significant plants should be made, unless such actions would jeopardize the continued existence of the population. A single sheet should be collected and deposited at a recognized public herbarium for future reference. All collections shall be made in accordance with applicable state and federal permit requirements. Photography may be used to document plant identification only when the population cannot withstand collection of voucher specimens.
  - d. Conducted using systematic field techniques in all habitats of the site to ensure a thorough coverage of potential impact areas. All habitats within the project site must be surveyed thoroughly in order to properly inventory and document the plants present. The level of effort required per given area and habitat is dependent upon the vegetation and its overall diversity and structural complexity.
  - e. Well documented. When a special status plant (or rare plant community) is located, a California Native Species (or Community) Field Survey Form or equivalent written form, accompanied by a copy of the appropriate portion of a 7.5-minute topographic map with the occurrence mapped, shall be completed, included within the survey report, and separately submitted to the California Natural Diversity Database. Population boundaries should be mapped as accurately as possible. The number of individuals in each population should be counted or estimated, as appropriate.
5. Complete reports of botanical surveys shall be included with all environmental assessment documents, including Negative Declarations and Mitigated Negative Declarations, Timber Harvesting Plans, Environmental Impact Reports, and Environmental Impact Statements. Survey reports shall contain the following information:
- a. Project location and description, including:

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<sup>4</sup> Collecting Guidelines and Documentation Techniques. California Native Plant Society Policy (adopted March 4, 1995).

<sup>5</sup> Ferren, W.R., Jr., D.L. Magney, and T.A. Sholars. 1995. The Future of California Floristics and Systematics: Collecting Guidelines and Documentation Techniques. *Madroño* 42(2):197-210.

- 1) A detailed map of the location and footprint of the proposed project.
  - 2) A detailed description of the proposed project, including one-time activities and ongoing activities that may affect botanical resources.
  - 3) A description of the general biological setting of the project area.
- b. Methods, including:
- 1) Survey methods for each of the habitats present, and rationale for the methods used.
  - 2) Description of reference site(s) visited and phenological development of the target special status plants, with an assessment of any conditions differing from the project site that may affect their identification.
  - 3) Dates of surveys and rationale for timing and intervals; names of personnel conducting the surveys; and total hours spent in the field for each surveyor on each date.
  - 4) Location of deposited voucher specimens and herbaria visited.
- c. Results, including:
- 1) A description and map of the vegetation communities on the project site. The current standard for vegetation classification, *A Manual of California Vegetation*<sup>6</sup>, should be used as a basis for the habitat descriptions and the vegetation map. If another vegetation classification system is used, the report must reference the system and provide the reason for its use.
  - 2) A description of the phenology of each of the plant communities at the time of each survey date.
  - 3) A list of all plants observed on the project site using accepted scientific nomenclature, along with any special status designation. The reference(s) used for scientific nomenclature shall be cited.
  - 4) Written description and detailed map(s) showing the location of each special status or locally significant plant found, the size of each population, and method used to estimate or census the population.
  - 5) Copies of all California Native Species Field Survey Forms or Natural Community Field Survey Forms and accompanying maps.
- d. Discussion, including:
- 1) Any factors that may have affected the results of the surveys (*e.g.*, drought, human disturbance, recent fire).
  - 2) Discussion of any special local or range-wide significance of any plant population or community on the site.
  - 3) An assessment of potential impacts. This shall include a map showing the distribution of special status and locally significant plants and communities on the site in relation to the proposed activities. Direct, indirect, and cumulative impacts to the plants and communities shall be discussed.
  - 4) Recommended measures to avoid and/or minimize direct, indirect, and cumulative impacts.
- e. References cited and persons contacted.
- f. Qualifications of field personnel including any special experience with the habitats and special status plants present on the site.

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<sup>6</sup> Sawyer, J.O. and T. Keeler-Wolf. 1995. *A Manual of California Vegetation*. California Native Plant Society. Sacramento, CA. 471 pp.

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**APPENDIX C: CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE *PROTOCOLS FOR SURVEYING AND EVALUATING IMPACTS TO SPECIAL STATUS NATIVE PLANT POPULATIONS AND SENSITIVE NATURAL COMMUNITIES* (2018)**

# Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities

STATE OF CALIFORNIA  
CALIFORNIA NATURAL RESOURCES AGENCY  
DEPARTMENT OF FISH AND WILDLIFE

DATE: March 20, 2018

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## 1. INTRODUCTION AND PURPOSE

The conservation of special status native plants and their habitats, as well as sensitive natural communities, is integral to maintaining biological diversity. The purpose of these protocols is to facilitate a consistent and systematic approach to botanical field surveys and assessments of special status plants and sensitive natural communities so that reliable information is produced and the potential for locating special status plants and sensitive natural communities is maximized. These protocols may also help those who prepare and review environmental documents determine when botanical field surveys are needed, how botanical field surveys may be conducted, what information to include in a botanical survey report, and what qualifications to consider for botanical field surveyors. These protocols are meant to help people meet California Environmental Quality Act (CEQA)<sup>1</sup> requirements for adequate disclosure of potential impacts to plants and sensitive natural communities. These protocols may be used in conjunction with protocols formulated by other agencies, for example, those developed by the U.S. Army Corps of Engineers to delineate jurisdictional wetlands<sup>2</sup> or by the U.S. Fish and Wildlife Service to survey for the presence of special status plants<sup>3</sup>.

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<sup>1</sup> Available at: <http://resources.ca.gov/ceqa>

<sup>2</sup> Available at: <http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits/techbio.aspx>

<sup>3</sup> U.S. Fish and Wildlife Service Survey Guidelines: <https://www.fws.gov/sacramento/es/Survey-Protocols-Guidelines/>

## Department of Fish and Wildlife Trustee and Responsible Agency Mission

The mission of the California Department of Fish and Wildlife (CDFW) is to manage California's diverse wildlife and native plant resources, and the habitats upon which they depend, for their ecological values and for their use and enjoyment by the public. CDFW has jurisdiction over the conservation, protection, and management of wildlife, native plants, and habitat necessary to maintain biologically sustainable populations (Fish & G. Code, § 1802). CDFW, as trustee agency under CEQA Guidelines section 15386, provides expertise in reviewing and commenting on environmental documents and provides protocols regarding potential negative impacts to those resources held in trust for the people of California.

Certain species are in danger of extinction because their habitats have been severely reduced in acreage, are threatened with destruction or adverse modification, or because of a combination of these and other factors. The California Endangered Species Act (CESA) and Native Plant Protection Act (NPPA) provide additional protections for such species, including take prohibitions (Fish & G. Code, § 2050 *et seq.*; Fish & G. Code, § 1908). As a responsible agency, CDFW has the authority to issue permits for the take of species listed under CESA and NPPA if the take is incidental to an otherwise lawful activity; CDFW has determined that the impacts of the take have been minimized and fully mitigated; and the take would not jeopardize the continued existence of the species (Fish & G. Code, § 2081, subd. (b); Cal. Code Regs., tit. 14 § 786.9, subd. (b)). Botanical field surveys are one of the preliminary steps to detect special status plant species and sensitive natural communities that may be impacted by a project.

## Definitions

Botanical field surveys provide information used to determine the potential environmental effects of proposed projects on special status plants and sensitive natural communities as required by law (e.g., CEQA, CESA, and federal Endangered Species Act (ESA)).

***Special status plants***, for the purposes of this document, include all plants that meet one or more of the following criteria:

- Listed or proposed for listing as threatened or endangered under the ESA or candidates for possible future listing as threatened or endangered under the ESA (50 C.F.R., § 17.12).
- Listed or candidates for listing by the State of California as threatened or endangered under CESA (Fish & G. Code, § 2050 *et seq.*)<sup>4</sup>. In CESA, “endangered species” means a native species or subspecies of plant which is in serious danger of becoming extinct throughout all, or a significant portion, of its range due to one or more causes, including loss of habitat, change in habitat, overexploitation, predation, competition, or disease (Fish & G. Code, § 2062). “Threatened species” means a native species or subspecies of plant that,

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<sup>4</sup> Refer to current online published lists available at:  
<https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=109390&inline>

although not presently threatened with extinction, is likely to become an endangered species in the foreseeable future in the absence of the special protection and management efforts required by CESA (Fish & G. Code, § 2067). “Candidate species” means a native species or subspecies of plant that the California Fish and Game Commission has formally noticed as being under review by CDFW for addition to either the list of endangered species or the list of threatened species, or a species for which the California Fish and Game Commission has published a notice of proposed regulation to add the species to either list (Fish & G. Code, § 2068).

- Listed as rare under the California Native Plant Protection Act (Fish & G. Code, § 1900 et seq.). A plant is rare when, although not presently threatened with extinction, the species, subspecies, or variety is found in such small numbers throughout its range that it may be endangered if its environment worsens (Fish & G. Code, § 1901).
- Meet the definition of rare or endangered under CEQA Guidelines section 15380, subdivisions (b) and (d), including:
  - Plants considered by CDFW to be “rare, threatened or endangered in California.” This includes plants tracked by the California Natural Diversity Database (CNDDDB) and the California Native Plant Society (CNPS) as California Rare Plant Rank (CRPR) 1 or 2<sup>5</sup>;
  - Plants that may warrant consideration on the basis of declining trends, recent taxonomic information, or other factors. This may include plants tracked by the CNDDDB and CNPS as CRPR 3 or 4<sup>6</sup>.
- Considered locally significant plants, that is, plants that are not rare from a statewide perspective but are rare or uncommon in a local context such as within a county or region (CEQA Guidelines, § 15125, subd. (c)), or as designated in local or regional plans, policies, or ordinances (CEQA Guidelines, Appendix G). Examples include plants that are at the outer limits of their known geographic range or plants occurring on an atypical soil type.

**Sensitive natural communities** are communities that are of limited distribution statewide or within a county or region and are often vulnerable to environmental effects of projects. These communities may or may not contain special status plants or their

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<sup>5</sup> See CNDDDB’s Special Vascular Plants, Bryophytes, and Lichens List for plant taxa with a CRPR of 1 or 2: <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=109383&inline>

<sup>6</sup> CRPR 3 plants (plants about which more information is needed) and CRPR 4 plants (plants of limited distribution) may warrant consideration under CEQA Guidelines section 15380. Impacts to CRPR 3 plants may warrant consideration under CEQA if sufficient information is available to assess potential impacts to such plants. Impacts to CRPR 4 plants may warrant consideration under CEQA if cumulative impacts to such plants are significant enough to affect their overall rarity. Data on CRPR 3 and 4 plants should be submitted to CNDDDB. Such data aids in determining and revising the CRPR of plants. See CNDDDB’s Special Vascular Plants, Bryophytes, and Lichens List for plant taxa with a CRPR of 3 or 4: <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=109383&inline>

habitat. CDFW's *List of California Terrestrial Natural Communities*<sup>7</sup> is based on the best available information, and indicates which natural communities are considered sensitive at the current stage of the California vegetation classification effort. See the Vegetation Classification and Mapping Program (VegCAMP) website for additional information on natural communities and vegetation classification<sup>8</sup>.

## 2. BOTANICAL FIELD SURVEYS

Evaluate the need for botanical field surveys prior to the commencement of any activities that may modify vegetation, such as clearing, mowing, or ground-breaking activities. It is appropriate to conduct a botanical field survey when:

- Natural (or naturalized) vegetation occurs in an area that may be directly or indirectly affected by a project (project area), and it is unknown whether or not special status plants or sensitive natural communities occur in the project area;
- Special status plants or sensitive natural communities have historically been identified in a project area; or
- Special status plants or sensitive natural communities occur in areas with similar physical and biological properties as a project area.

### Survey Objectives

Conduct botanical field surveys in a manner which maximizes the likelihood of locating special status plants and sensitive natural communities that may be present. Botanical field surveys should be floristic in nature, meaning that every plant taxon that occurs in the project area is identified to the taxonomic level necessary to determine rarity and listing status. "Focused surveys" that are limited to habitats known to support special status plants or that are restricted to lists of likely potential special status plants are not considered floristic in nature and are not adequate to identify all plants in a project area to the level necessary to determine if they are special status plants.

For each botanical field survey conducted, include a list of all plants and natural communities detected in the project area. More than one field visit is usually necessary to adequately capture the floristic diversity of a project area. An indication of the prevalence (estimated total numbers, percent cover, density, etc.) of the special status plants and sensitive natural communities in the project area is also useful to assess the significance of a particular plant population or natural community.

### Survey Preparation

Before botanical field surveys are conducted, the botanical field surveyors should compile relevant botanical information in the general project area to provide a regional

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<sup>7</sup> Available at: <https://www.wildlife.ca.gov/Data/VegCAMP/Natural-Communities#natural%20communities%20lists>

<sup>8</sup> Available at: <https://www.wildlife.ca.gov/Data/VegCAMP>



context. Consult the CNDDDB<sup>9</sup> and BIOS<sup>10</sup> for known occurrences of special status plants and sensitive natural communities in the project area prior to botanical field surveys. Generally, identify vegetation and habitat types potentially occurring in the project area based on biological and physical properties (e.g. soils) of the project area and surrounding ecoregion<sup>11</sup>. Then, develop a list of special status plants and sensitive natural communities with the potential to occur within the vegetation and habitat types identified. The list of special status plants with the potential to occur in the project area can be created with the help of the CNDDDB QuickView Tool<sup>12</sup> which allows the user to generate lists of CNDDDB-tracked elements that occur within a particular U.S. Geological Survey 7.5' topographic quad, surrounding quads, and counties within California. Resulting lists should only be used as a tool to facilitate the use of reference sites, with the understanding that special status plants and sensitive natural communities in a project area may not be limited to those on the list. Botanical field surveys and subsequent reporting should be comprehensive and floristic in nature and not restricted to or focused only on a list. Include in the botanical survey report the list of potential special status plants and sensitive natural communities that was created, and the list of references used to compile the background botanical information for the project area.

### **Survey Extent**

Botanical field surveys should be comprehensive over the entire project area, including areas that will be directly or indirectly impacted by the project. Adjoining properties should also be surveyed where direct or indirect project effects could occur, such as those from fuel modification, herbicide application, invasive species, and altered hydrology. Surveys restricted to known locations of special status plants may not identify all special status plants and sensitive natural communities present, and therefore do not provide a sufficient level of information to determine potential impacts.

### **Field Survey Method**

Conduct botanical field surveys using systematic field techniques in all habitats of the project area to ensure thorough coverage. The level of effort required per given area and habitat is dependent upon the vegetation and its overall diversity and structural complexity, which determines the distance at which plants can be identified. Conduct botanical field surveys by traversing the entire project area to ensure thorough coverage, documenting all plant taxa observed. Parallel survey transects may be necessary to ensure thorough survey coverage in some habitats. The level of effort should be sufficient to provide comprehensive reporting. Additional time should be allocated for plant identification in the field.

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<sup>9</sup> Available at: <https://www.wildlife.ca.gov/Data/CNDDDB>

<sup>10</sup> Available at: <https://www.wildlife.ca.gov/Data/BIOS>

<sup>11</sup> Ecological Subregions of the United States, available at: <http://www.fs.fed.us/land/pubs/ecoregions/toc.html>

<sup>12</sup> Available at: <https://www.wildlife.ca.gov/Data/CNDDDB/Maps-and-Data>. When creating a list of special status plants with the potential to occur in a project area, special care should be taken to search all quads with similar geology, habitats, and vegetation to those found in the project area.

## Timing and Number of Visits

Conduct botanical field surveys in the field at the times of year when plants will be both evident and identifiable. Usually this is during flowering or fruiting. Space botanical field survey visits throughout the growing season to accurately determine what plants exist in the project area. This usually involves multiple visits to the project area (e.g. in early, mid, and late-season) to capture the floristic diversity at a level necessary to determine if special status plants are present<sup>13</sup>. The timing and number of visits necessary to determine if special status plants are present is determined by geographic location, the natural communities present, and the weather patterns of the year(s) in which botanical field surveys are conducted.

## Reference Sites

When special status plants are known to occur in the type(s) of habitat present in a project area, observe reference sites (nearby accessible occurrences of the plants) to determine whether those special status plants are identifiable at the times of year the botanical field surveys take place and to obtain a visual image of the special status plants, associated habitat, and associated natural communities.

## Use of Existing Surveys

For some project areas, floristic inventories or botanical survey reports may already exist. Additional botanical field surveys may be necessary for one or more of the following reasons:

- Botanical field surveys are not current<sup>14</sup>;
- Botanical field surveys were conducted in natural systems that commonly experience year to year fluctuations such as periods of drought or flooding (e.g. vernal pool habitats or riverine systems);
- Botanical field surveys did not cover the entire project area;
- Botanical field surveys did not occur at the appropriate times of year;
- Botanical field surveys were not conducted for a sufficient number of years to detect plants that are not evident and identifiable every year (e.g. geophytes, annuals and some short-lived plants);

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<sup>13</sup> U.S. Fish and Wildlife Service Guidelines for Conducting and Reporting Botanical Inventories for Federally Listed, Proposed and Candidate Plants available at: <https://www.fws.gov/sacramento/es/Survey-Protocols-Guidelines/>

<sup>14</sup> Habitats, such as grasslands or desert plant communities that have annual and short-lived perennial plants as major floristic components may require yearly surveys to accurately document baseline conditions for purposes of impact assessment. In forested areas, however, surveys at intervals of five years may adequately represent current conditions. For forested areas, refer to “Guidelines for Conservation of Sensitive Plant Resources Within the Timber Harvest Review Process and During Timber Harvesting Operations”, available at: <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=116396&inline>

- Botanical field surveys did not identify all plants in the project area to the taxonomic level necessary to determine rarity and listing status;
- Fire history, land use, or the physical or climatic conditions of the project area have changed since the last botanical field survey was conducted;
- Changes in vegetation or plant distribution have occurred since the last botanical field surveys were conducted, such as those related to habitat alteration, fluctuations in abundance, invasive species, seed bank dynamics, or other factors; or
- Recent taxonomic studies, status reviews or other scientific information has resulted in a revised understanding of the special status plants with potential to occur in the project area.

### **Negative Surveys**

Adverse conditions from yearly weather patterns may prevent botanical field surveyor from determining the presence of, or accurately identifying, some special status plants in the project area. Disease, drought, predation, fire, herbivory or other disturbance may also preclude the presence or identification of special status plants in any given year. Discuss all adverse conditions in the botanical survey report<sup>15</sup>.

The failure to locate a known special status plant occurrence during one field season does not constitute evidence that the plant occurrence no longer exists at a location, particularly if adverse conditions are present. For example, botanical field surveys over a number of years may be necessary if the special status plant is an annual or short-lived plant having a persistent, long-lived seed bank and populations of the plant are known to not germinate every year. Visiting the project area in more than one year increases the likelihood of detecting special status plants, particularly if conditions change. To further substantiate negative findings for a known occurrence, a visit to a nearby reference site may help ensure that the timing of botanical field surveys was appropriate.

### **3. REPORTING AND DATA COLLECTION**

Adequate information about special status plants and sensitive natural communities present in a project area will enable reviewing agencies and the public to effectively assess potential impacts to special status plants and sensitive natural communities and will guide the development of avoidance, minimization, and mitigation measures. The information necessary to assess impacts to special status plants and sensitive natural communities is described below. For comprehensive, systematic botanical field surveys where no special status plants or sensitive natural communities were found, reporting and data collection responsibilities for botanical field surveyor remain as described

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<sup>15</sup> U.S. Fish and Wildlife Service Guidelines for Conducting and Reporting Botanical Inventories for Federally Listed, Proposed and Candidate Plants available at: <https://www.fws.gov/sacramento/es/Survey-Protocols-Guidelines/>

below, excluding specific occurrence information.

### **Special Status Plant and Sensitive Natural Community Observations**

Record the following information for locations of each special status plant and sensitive natural community detected during a botanical field survey of a project area.

- The specific geographic locations where the special status plants and sensitive natural communities were found. Preferably this will be done by use of global positioning system (GPS) and include the datum<sup>16</sup> in which the spatial data was collected and any uncertainty or error associated with the data. If GPS is not available, a detailed map (1:24,000 or larger) showing locations and boundaries of each special status plant population and sensitive natural community in relation to the project area is acceptable. Mark occurrences and boundaries as accurately as possible;
- The site-specific characteristics of occurrences, such as associated species, habitat and microhabitat, structure of vegetation, topographic features, soil type, texture, and soil parent material. If a special status plant is associated with a wetland, provide a description of the direction of flow and integrity of surface or subsurface hydrology and adjacent off-site hydrological influences as appropriate;
- The number of individuals in each special status plant population as counted (if population is small) or estimated (if population is large);
- If applicable, information about the percentage of each special status plant in each life stage such as seedling, vegetative, flowering and fruiting;
- The density of special status plants, identifying areas of relatively high, medium and low density of each special status plant in the project area; and
- Digital images of special status plants and sensitive natural communities in the project area, with diagnostic features.

### **Special Status Plant and Sensitive Natural Community Documentation**

When a special status plant is located, data must be submitted to the CNDDDB. Data may be submitted in a variety of formats depending on the amount and type of data that is collected<sup>17</sup>. The most common way to submit data is the Online CNDDDB Field Survey Form<sup>18</sup>, or equivalent written report, accompanied by geographic locality information (GPS coordinates, GIS shapefiles, KML files, topographic map, etc.). Data submitted in digital form must include the datum<sup>19</sup> in which it was collected.

If a sensitive natural community is found in a project area, document it with a Combined

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<sup>16</sup> NAD83, NAD27 or WGS84

<sup>17</sup> See <https://www.wildlife.ca.gov/Data/CNDDDB/Submitting-Data> for information on acceptable data submission formats.

<sup>18</sup> Available at: <https://www.wildlife.ca.gov/Data/CNDDDB/Submitting-Data>

<sup>19</sup> NAD83, NAD27 or WGS84

Vegetation Rapid Assessment and Relevé Field Form<sup>20</sup> and submit the form to VegCAMP<sup>21</sup>.

### **Voucher Collection**

Voucher specimens provide verifiable documentation of special status plant presence and identification and a scientific record. This information is vital to conservation efforts and valuable for scientific research. Collection of voucher specimens should be conducted in a manner that is consistent with conservation ethics, and in accordance with applicable state and federal permit requirements (e.g. scientific, educational, or management permits pursuant to Fish & G. Code, § 2081, subd. (a)). Voucher collections of special status plants (or possible special status plants) should only be made when such actions would not jeopardize the continued existence of the population. A plant voucher collecting permit<sup>22</sup> is required from CDFW prior to the take or possession of a state-listed plant for voucher collection purposes, and the permittee must comply with all permit conditions.

Voucher specimens should be deposited in herbaria that are members of the Consortium of California Herbaria<sup>23</sup> no later than 120 days after the collections have been made. Digital imagery can be used to supplement plant identification and document habitat. Record all relevant collector names and permit numbers on specimen labels (if applicable).

### **Botanical Survey Reports**

Botanical survey reports provide an important record of botanical field survey results and project area conditions. Botanical survey reports containing the following information should be prepared whenever botanical field surveys take place, and should also be submitted with project environmental documents:

#### ***Project and location description***

- A description of the proposed project;
- A detailed map of the project area that identifies topographic and landscape features and includes a north arrow and bar scale;
- A vegetation map of the project area using Survey of California Vegetation Classification and Mapping Standards<sup>24</sup> at a thematic and spatial scale that allows the display of all sensitive natural communities;
- A soil map of the project area; and

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<sup>20</sup> Available at: <https://www.wildlife.ca.gov/Data/VegCAMP/Natural-Communities/Submit>

<sup>21</sup> Combined Vegetation Rapid Assessment and Releve Field Forms can be emailed to VegCAMP staff. Contact information available at: <https://www.wildlife.ca.gov/Data/VegCAMP/Natural-Communities/Other-Info>

<sup>22</sup> Applications available at: <https://www.wildlife.ca.gov/Conservation/Plants/Permits>

<sup>23</sup> A list of Consortium of California Herbaria participants is available at: <http://ucjeps.berkeley.edu/consortium/participants.html>

<sup>24</sup> Available at: <https://www.wildlife.ca.gov/data/vegcamp/publications-and-protocols>

- A written description of the biological setting, including all natural communities; geological and hydrological characteristics; and land use or management history.

***Detailed description of survey methodology and results***

- Names and qualifications of botanical field surveyor(s);
- Dates of botanical field surveys (indicating the botanical field surveyor(s) that surveyed each area on each survey date), and total person-hours spent;
- A discussion of the survey preparation methodology;
- A list of special status plants and sensitive natural communities with potential to occur in the region;
- Description(s) of reference site(s), if visited, and the phenological development of special status plant(s) at those reference sites;
- A description and map of the area surveyed relative to the project area;
- A list of all plant taxa occurring in the project area, with all taxa identified to the taxonomic level necessary to determine whether or not they are a special status plant;
- Detailed data and maps for all special status plants and sensitive natural communities detected. Information specified above under the headings “Special Status Plant and Sensitive Natural Community Observations,” and “Special Status Plant and Sensitive Natural Community Documentation,” should be provided for the locations of each special status plant and sensitive natural community detected. Copies of all California Native Species Field Survey Forms and Combined Vegetation Rapid Assessment and Relevé Field Forms should be sent to the CNDDDB and VegCAMP, respectively, and included in the project environmental document as an Appendix<sup>25</sup>;
- A discussion of the potential for a false negative botanical field survey;
- A discussion of how climatic conditions may have affected the botanical field survey results;
- A discussion of how the timing of botanical field surveys may affect the comprehensiveness of botanical field surveys;
- Any use of existing botanical field surveys and a discussion of their applicability to the project;
- The deposition locations of voucher specimens, if collected; and
- A list of references used, including persons contacted and herbaria visited.

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<sup>25</sup> It is not necessary to submit entire environmental documents to the CNDDDB

### ***Assessment of potential project impacts***

- A discussion of the significance of special status plant populations in the project area considering nearby populations and total range and distribution;
- A discussion of the significance of sensitive natural communities in the project area considering nearby occurrences and natural community distribution;
- A discussion of project related direct, indirect, and cumulative impacts to special status plants and sensitive natural communities;
- A discussion of the degree and immediacy of all threats to special status plants and sensitive natural communities, including those from invasive species;
- A discussion of the degree of impact, if any, of the project on unoccupied, potential habitat for special status plants; and
- Recommended measures to avoid, minimize, or mitigate impacts to special status plants and sensitive natural communities.

## **4. BOTANICAL FIELD SURVEYOR QUALIFICATIONS**

Botanical field surveyors should possess the following qualifications:

- Knowledge of plant taxonomy and natural community ecology;
- Familiarity with plants of the region, including special status plants;
- Familiarity with natural communities of the region, including sensitive natural communities;
- Experience with the CNDDDB, BIOS, and Survey of California Vegetation Classification and Mapping Standards;
- Experience conducting floristic botanical field surveys as described in this document, or experience conducting such botanical field surveys under the direction of an experienced botanical field surveyor;
- Familiarity with federal, state, and local statutes and regulations related to plants and plant collecting; and
- Experience analyzing the impacts of projects on native plant species and sensitive natural communities.

## **5. SUGGESTED REFERENCES**

Bonham, C.D. 1988. Measurements for terrestrial vegetation. John Wiley and Sons, Inc., New York, NY.

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- Mueller-Dombois, D. and H. Ellenberg. 1974. Aims and methods of vegetation ecology. John Wiley and Sons, Inc. New York, NY.
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# LIVE OAK ASSOCIATES, INC.

an Ecological Consulting Firm

October 3, 2021

Ms. Heide Antonescu  
Trumark Homes, LLC  
3001 Bishop Drive, Suite 100  
San Ramon, CA 94583

**Subject: Tree Survey, Arborist Report 2481 Deerwood Drive, City of San Ramon, California  
(PN 2613-02)**

Dear Ms. Antonescu:

Per your request, Live Oak Associates (LOA), has completed a tree survey for the approximately 4.43-acre 2481 Deerwood Drive project site (APN 208-640-003-9) located in the City of San Ramon, Contra Costa County (Figure 1). The upper 2.61-acre portion of the property adjoining Deerwood Drive on the north (identified as “developable” on the proposed site plan provided for this survey and report) consists of a relatively level terrace and is currently occupied by an office complex and associated parking areas and infrastructure. The remaining 1.82 acres, which slopes down steeply below the office complex to the south towards Crow Canyon Road, is covered by native oak woodland. A residential housing development is proposed for the 2.61-acre upper terrace where the office complex currently sits.

This report provides methods and results regarding the tree survey, identifies and discusses development impacts on trees that are considered protected trees under the City of San Ramon’s tree ordinance, and provides tree protection measures for trees to be retained.

## **CITY OF SAN RAMON TREE ORDINANCE**

The City of San Ramon recognizes the many benefits that trees contribute to the urban environment. As such, the City’s Tree Preservation and Protection Ordinance protects certain trees, requiring a permit for the “relocation, removal, cutting-down, or other act that causes the destruction of a protected tree” (Municipal Code D5-8). San Ramon protected trees include the following definitions that may apply to the proposed Deerwood Drive project site:

- A native oak tree with a diameter of six or more inches as measured 54 inches above the ground.

- A tree required to be planted, relocated, or preserved that is specifically identified as a condition of approval for a Tree Removal Permit or other discretionary permit, and/or as environmental mitigation for a discretionary permit.
- A tree within 100 feet of a perennial stream, or within 50 feet of a seasonal stream that is six inches or more in diameter as measured at 54 inches above the ground.
- A mature tree other than those listed above, that is eight inches or more in diameter as measured at 54 inches above the ground that is not otherwise exempt.

One permit exemption that may apply to the project addresses dead trees:

- Any protected tree which is determined by the City's Director, or an arborist approved by the Director, to be dead, has become hazardous or unsightly as a result, and provides limited habitat value.

## METHODS

The tree survey for this report was conducted by LOA Certified Arborist Neal Kramer (International Society of Arboriculture #WE-7833A) on September 21-23, 2021. The tree species, trunk diameter, estimated height, estimated canopy spread, and general condition were recorded for all trees on the 2481 Deerwood Drive property (project site) or with canopy overhanging the property having a trunk circumference of 18 inches (approximately 6 inches diameter) or greater as measured at 4 ½ feet (54 inches) above grade.

A limited visual assessment of health and structure was used to assign a general condition rating for each tree according to the following scale:

- Excellent = 90-100% healthy foliage, free of structural defects, pests or disease, ideal form and function for species and location
- Good = 75-90% healthy foliage, minor correctable defects, good form and function for location
- Fair = 50-75% healthy foliage, moderate defects, and or substantial asymmetry that compromise function or aesthetics for the location
- Poor = 20-50% healthy foliage with significant defects, low life expectancy
- Very poor = less than 20% healthy foliage with significant defects, recovery unlikely
- Dead = less than 5% healthy foliage

Each tree surveyed was marked with a numbered metal tag (tag numbers 201-300 and 351-366, tag numbers 301-350 intentionally skipped) and an approximate location of each tree was mapped in the field using the ArcGIS Collector software. The ArcGIS Collector data was then used to prepare a tree survey map.

## SURVEY RESULTS AND DISCUSSION

A total of 116 trees representing 12 different species were documented on or immediately adjacent to the Deerwood Drive project site. Species documented in order of abundance include coast live oak (*Quercus agrifolia*), ornamental pear (*Pyrus calleryana*), California buckeye (*Aesculus californica*), American sweet gum (*Liquidambar styraciflua*), coast redwood (*Sequoia sempervirens*), California bay (*Umbellularia californica*), bronze loquat (*Eriobotrya deflexa*), valley oak (*Quercus lobata*), crape myrtle (*Lagerstroemia indica*), hollyleaf cherry (*Prunus ilicifolia*), flowering locust (*Robinia x ambigua*) and red willow (*Salix laevigata*).

Coast live oak, valley oak, California buckeye, and California bay are native to the project area. Eleven trees documented for this report are located offsite but are immediately adjacent, have some canopy overhanging, and likely have root systems stretching onto the project site. These trees could potentially be impacted by project development, and they are, therefore, included with this report. Offsite trees documented include one coast live oak and six coast redwoods along the northeastern project boundary (tree tag #s 215-221), one flowering locust along the northwestern project boundary (tree tag #264), and one valley oak and two coast live oaks along the southern property boundary (tree tag #s 283, 284 and 357).

A summary table of information collected for each tree documented is provided with this report as Appendix A, and a map showing the approximate locations for each tree is provided below as Figure 2.

### Protected Trees

Ninety-five (95) of the 116 trees documented for this report qualify as protected trees under the City of San Ramon Tree Preservation and Protection Ordinance. Protected trees are identified in the “Protected Tree” column on Appendix A, and the tree tag number and species name are indicated in bold font.

### PROJECT IMPACTS TO TREES

The analysis of impacts to trees for this report is based on a preliminary site plan provided by Trumark Homes and dated August 19, 2021. Based on the preliminary site plan, it is estimated that 53 trees will be removed for project development. Forty-one of the 53 trees to be removed qualify as protected under the San Ramon Tree Preservation and Protection Ordinance. These include 19 ornamental pear trees (tree tag #s 202-209, 211-214, 252-254, 257 and 261-263), 16 coast live oak trees (tag #s 227-238 and 240-243) and 6 American sweet gum trees (tag #s 246-251). Trees projected to be removed for project development are indicated as such in the “remove/retain” column on Appendix A.

**Tree 366:** This large valley oak tree with a trunk diameter of 32.6 inches is dead. Though not located within the area proposed for development, it is located immediately adjacent and has large dead branches overhanging the development area. These branches may represent a potential hazard risk, and it is therefore recommended that the tree be removed.

In addition to trees that will be removed, some trees adjacent to the proposed development boundary may be retained but could be impacted by development activities. In order to minimize project impacts to trees being retained, and ensure their long-term health and survival, a general tree protection plan is provided below.

Photos of protected trees expected to be removed for project development, as well as offsite trees that could be impacted by project development, are included with this report as Appendix B.

Once final grading and excavation plans are in place, the project arborist should revisit the site to confirm which trees will need to be removed and which can be retained. More specific tree protection measures for certain trees to be retained may be necessary at that time.

## **TREE PROTECTION PLAN**

### **Tree Protection Zone**

- A Tree Protection Zone (TPZ) shall be established for all retained trees that could be impacted by project activities. A TPZ will include all area within the canopy dripline of a tree to be protected unless otherwise defined and/or approved by the project arborist.
- The TPZ will be protected by a fenced enclosure to prevent unauthorized access during project activities. Fencing shall be constructed of six-foot chain link, mounted on two inch diameter galvanized iron posts, at no more than 10-foot spacing. Warning signs (e.g. *WARNING - Tree Protection Zone – This fence shall not be moved without approval by Project Arborist*) shall be prominently displayed and visible from all sides of the TPZ fencing.
- TPZ fencing shall be installed prior to any demolition, grading, staging, stockpiling, or any other construction activities, and shall remain in place until all construction activities are complete.
- No construction, staging, or storage of materials, equipment or vehicles shall occur within a TPZ without advanced approval and oversight by the project arborist.
- No excess soil, chemicals, refuse or other waste shall be dumped within a TPZ.
- The primary contractor shall be responsible for maintaining TPZ fencing, and enforcing all TPZ guidelines outlined above throughout the course of the project.

### **Site Grading, Excavation and Trenching**

- Soil disturbance or grade changes within a Tree Protection Zone (TPZ) are not permitted unless approved by the Project Arborist. Any approved grading, excavation or trench work within a TPZ will be field staked and inspected by the Project Arborist prior to implementation. Additional tree protection measures may be required.
- Grade changes in the vicinity of trees to be preserved should remain as close to natural grade as possible.

- If trenching is required and approved within a TPZ, trenches shall be dug by hand or with specialized equipment approved by the Project Arborist.

### **Tree Canopy Pruning**

- To the extent possible, any necessary canopy pruning should be completed prior to the commencement of any demolition, staging, grading or construction activities.
- Pruning shall be performed by a qualified tree service worker under the direction of a certified arborist following International Society of Arboriculture tree pruning best management practices. Pruning shall not be performed by construction personnel.

### **Root Pruning**

- Any roots one inch and larger requiring removal shall be cut cleanly in sound tissue. No pruning seals or paint shall be used on wounds.
- Roots two inches and greater shall remain in place and undamaged to the extent practicable. If removal is required, cuts shall be made with the approval and under the direction of a certified arborist.

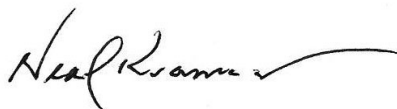
### **Communication for Tree Protection Compliance**

- A preconstruction meeting shall be arranged for the Project Arborist to meet with the Project Planner, Onsite Project Supervisor, Demolition and Grading Contractors and/or other appropriate Project Leads to review and secure a commitment to compliance with all tree protection measures.

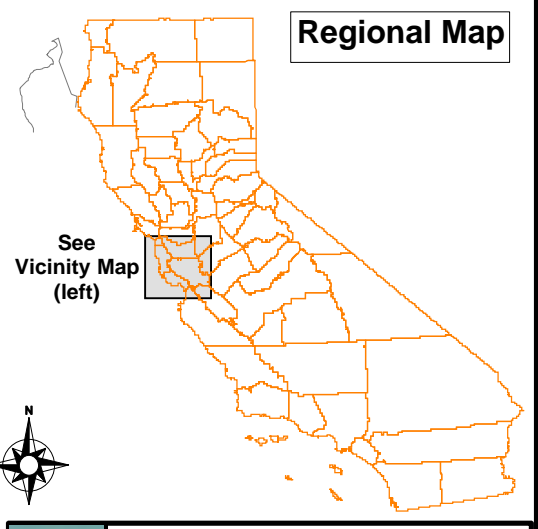
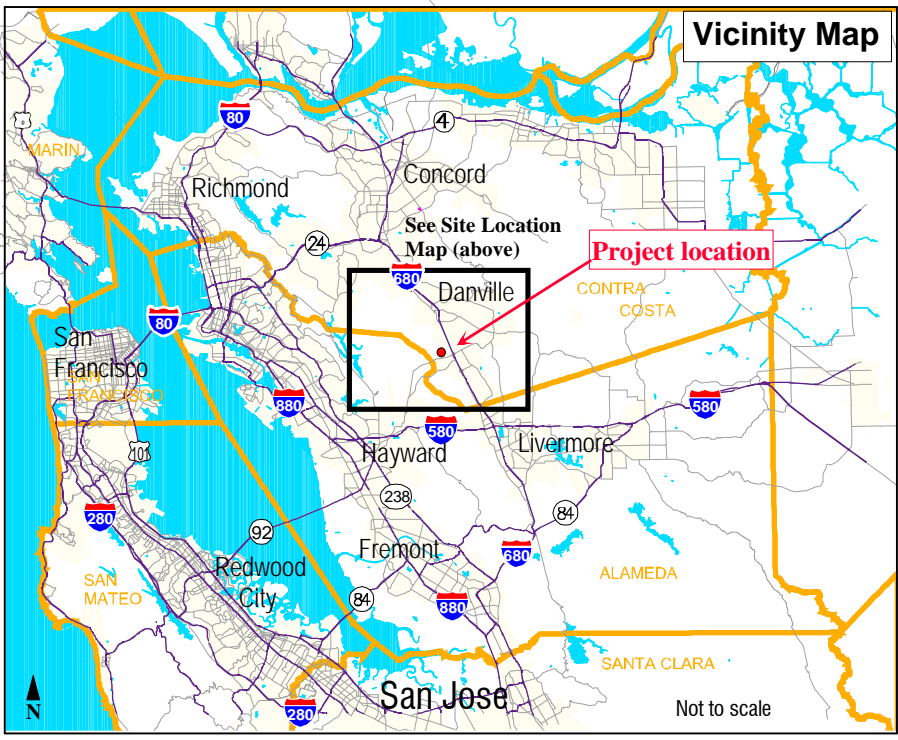
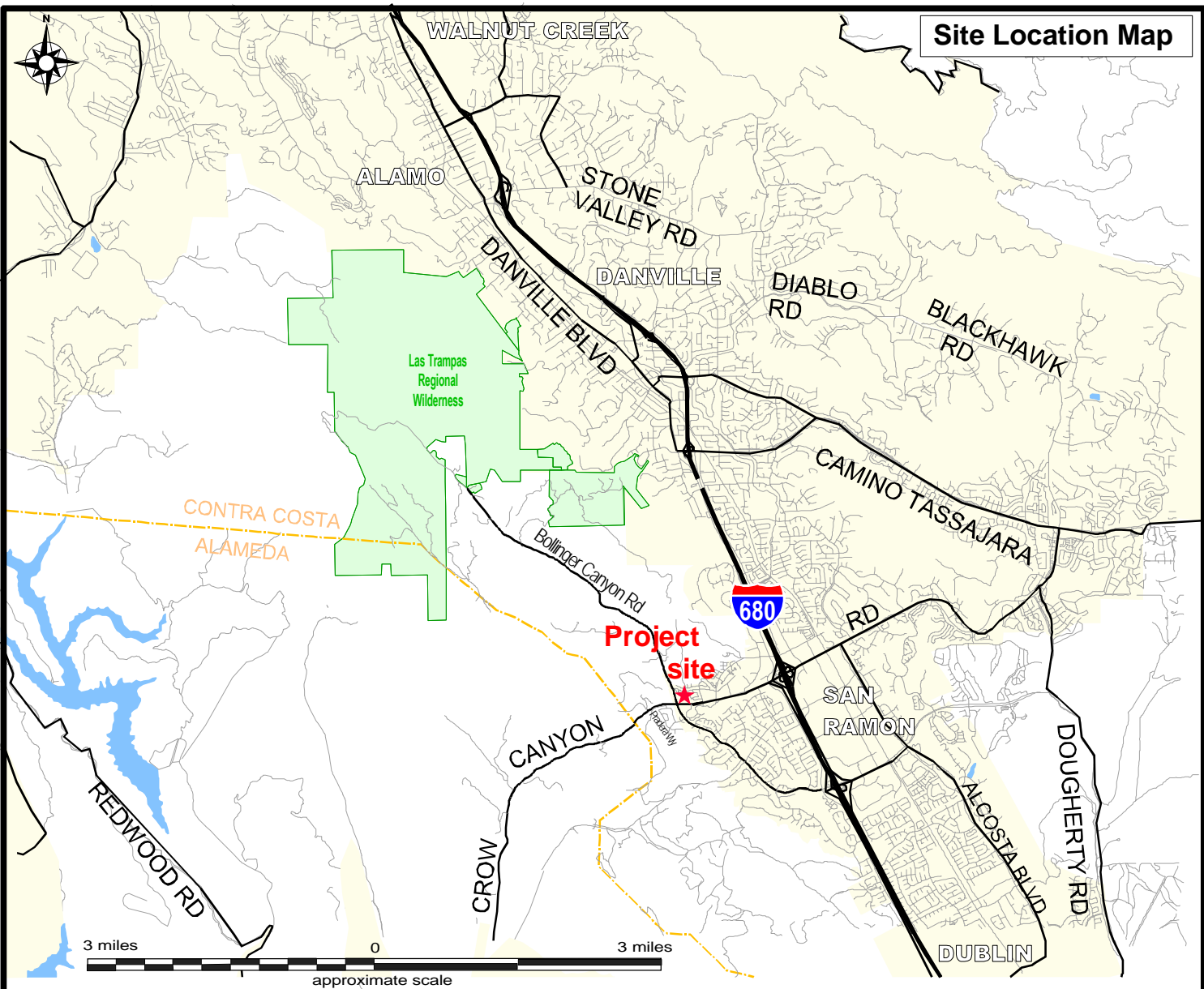
Unless expressed otherwise, the evaluation of trees discussed in this report is limited to a visual examination of accessible parts without dissection, excavation, probing, or coring. There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the trees in question may not arise in the future. Tree locations provided are approximate. More precise locations should be confirmed by a licensed surveyor if necessary.


If you have questions regarding findings or other elements of this report, please feel free to contact me at either (650) 563-9943 or (650) 208-0061.

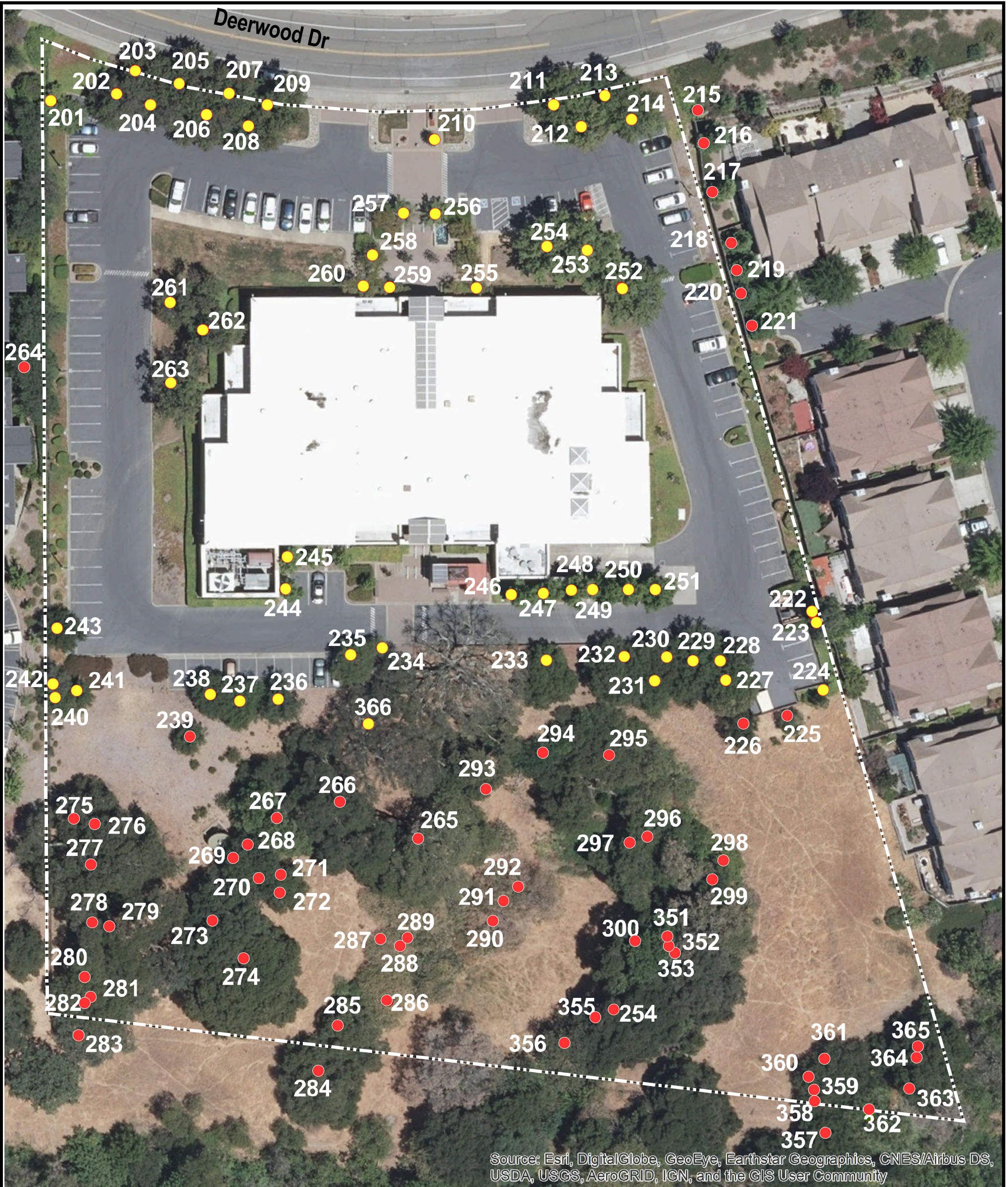
Sincerely,



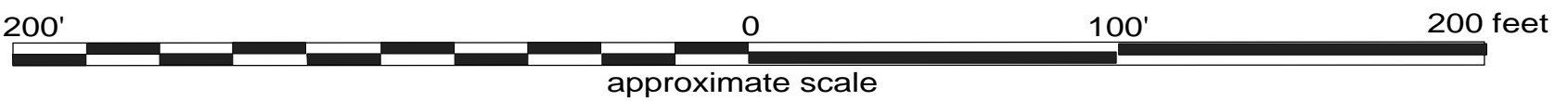
Neal Kramer  
Certified Arborist #WE-7833A






 <b>Live Oak Associates, Inc.</b>		
2481 Deerwood Dr Site / Vicinity Map		
Date	Project #	Figure #
9/10/2021	2613-02	1




Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



**LEGEND**

-  Project Boundary
- Tree Location and Tag Numbers**
-  **284** Tree to Remain
-  **284** Tree Recommended to be Removed

	<b>Live Oak Associates, Inc.</b>		
	2481 Deerwood Dr Tree Survey		
Date	Project #	Figure #	
10/06/2021	2613-02		2

**APPENDIX A:  
TREE TABLE**



APPENDIX A: Results of the 2481 Deerwood Drive Property Tree Survey. Trees meeting the City of SanRamon Protected Tree definition are indicated in bold font.

Tree #	Species	Common Name	Trunk diameter @ 54" above grade (inches)	Protected (P)	Approx. Height (feet)	Approx. Canopy Spread (feet)	General Condition*	Retain/Remove	Comments
Trees #s 201-264 are located on or immediately adjacent to the more or less level upper terrace with existing development									
201	<i>Prunus ilicifolia</i>	Hollyleaf cherry	6.7+7.3+6.2	-	18	20	Fair	Remove	Multiple spreading stem, dead branch tips SE
202	<i>Pyrus calleryana</i>	Ornamental pear	15.8	P	30	30	Fair	Remove	Included bark @8', 10% dead canopy, mistletoe
203	<i>Pyrus calleryana</i>	Ornamental pear	14	P	30	26	Fair	Remove	Included bark @7', mistletoe
204	<i>Pyrus calleryana</i>	Ornamental pear	12.2	P	30	24	Poor	Remove	Thin canopy w/20% dead, main stem cracked bark, mistletoe
205	<i>Pyrus calleryana</i>	Ornamental pear	15.6	P	32	26	Fair	Remove	Thin canopy, included bark @8', mistletoe
206	<i>Pyrus calleryana</i>	Ornamental pear	14.9	P	34	24	Fair	Remove	Thin canopy w/10% dead, mistletoe
207	<i>Pyrus calleryana</i>	Ornamental pear	13.5	P	36	22	Fair	Remove	Thin canopy, mistletoe
208	<i>Pyrus calleryana</i>	Ornamental pear	15.5	P	34	24	Fair	Remove	10% dead canopy, included bark @8', mistletoe
209	<i>Pyrus calleryana</i>	Ornamental pear	15.1	P	35	26	Good-	Remove	Unbalanced canopy, branch failure @14', mistletoe
210	<i>Lagerstroemia indica</i>	Crape myrtle	6.2	-	16	12	Excellent	Remove	
211	<i>Pyrus calleryana</i>	Ornamental pear	15.4	P	34	32	Fair	Remove	Thin canopy upper 1/3, included bark @8', mistletoe
212	<i>Pyrus calleryana</i>	Ornamental pear	14.7	P	36	26	Fair	Remove	Thin canopy w/20%dead, included bark @8', mistletoe
213	<i>Pyrus calleryana</i>	Ornamental pear	14.2	P	35	24	Fair	Remove	Heavy mistletoe
214	<i>Pyrus calleryana</i>	Ornamental pear	13.2	P	32	25	Fair	Remove	Heavy mistletoe
215	<i>Quercus agrifolia</i>	Coast live oak	8.1	P	22	16	Good	Retain	Offsite
216	<i>Sequoia sempervirens</i>	Coast redwood	18	-	38	16	Excellent	Retain	Offsite
217	<i>Sequoia sempervirens</i>	Coast redwood	18	-	36	15	Excellent	Retain	Offsite
218	<i>Sequoia sempervirens</i>	Coast redwood	14	-	30	14	Excellent	Retain	Offsite
219	<i>Sequoia sempervirens</i>	Coast redwood	16	-	34	15	Excellent	Retain	Offsite
220	<i>Sequoia sempervirens</i>	Coast redwood	12	-	27	14	Good	Retain	Offsite
221	<i>Sequoia sempervirens</i>	Coast redwood	16	-	30	16	Excellent	Retain	Offsite
222	<i>Pinus canariensis</i>	Canary Island pine	18+17.5	-	45	28	Good	Remove	Co-dominant @2"
223	<i>Salix laevigata</i>	Red willow	13.8	-	26	28	Fair	Remove	Unbalance canopy, 40-60° lean
224	<i>Pinus canariensis</i>	Canary Island pine	11.3	-	38	14	Good	Remove	
225	<i>Quercus agrifolia</i>	Coast live oak	9.4+8.8	P	25	24	Good	Retain	
226	<i>Quercus agrifolia</i>	Coast live oak	11.1+11.7	P	34	26	Good	Retain	
227	<i>Quercus agrifolia</i>	Coast live oak	20.7	P	40	26	Good	Remove	Canopy unbalance south
228	<i>Quercus agrifolia</i>	Coast live oak	13.3	P	32	24	Good	Remove	Canopy unbalance to NE, crowded by tree 227
229	<i>Quercus agrifolia</i>	Coast live oak	19.5+15.5	P	34	34	Good	Remove	
230	<i>Quercus agrifolia</i>	Coast live oak	17.9+11.3	P	30	20	Fair	Remove	Thin canopy, co-dominant @1' w/ included

APPENDIX A: Results of the 2481 Deerwood Drive Property Tree Survey. Trees meeting the City of SanRamon Protected Tree definition are indicated in bold font.

Tree #	Species	Common Name	Trunk diameter @ 54" above grade (inches)	Protected (P)	Approx. Height (feet)	Approx. Canopy Spread (feet)	General Condition*	Retain/Remove	Comments
									bark
231	<b>Quercus agrifolia</b>	Coast live oak	20	P	40	26	Good	Remove	
232	<b>Quercus agrifolia</b>	Coast live oak	20	P	36	26	Good	Remove	
233	<b>Quercus agrifolia</b>	Coast live oak	17.6	P	34	26	Good	Remove	
234	<b>Quercus agrifolia</b>	Coast live oak	6.4	P	15	12	Fair	Remove	30% dead canopy, crowded by tree235
235	<b>Quercus agrifolia</b>	Coast live oak	13.1	P	24	25	Good+	Remove	
236	<b>Quercus agrifolia</b>	Coast live oak	13.7	P	30	28	Good+	Remove	
237	<b>Quercus agrifolia</b>	Coast live oak	14.1	P	28	25	Good+	Remove	
238	<b>Quercus agrifolia</b>	Coast live oak	12.3	P	25	20	Good+	Remove	
239	<b>Quercus agrifolia</b>	Coast live oak	6+7.2+5.5	P	22	20	Good	Retain	
240	<b>Quercus agrifolia</b>	Coast live oak	9+6.1	P	24	14	Good	Remove	
241	<b>Quercus agrifolia</b>	Coast live oak	10.8+5.5	P	26	16	Good	Remove	
242	<b>Quercus agrifolia</b>	Coast live oak	9.9+9.6	P	22	26	Fair+	Remove	10% dead canopy, co-dominant from base
243	<b>Quercus agrifolia</b>	Coast live oak	7.9+9+10	P	26	28	Fair	Remove	Thin canopy, tri-dominant @3.5'
244	<i>Liquidambar styraciflua</i>	American sweet gum	6.8	-	24	12	Fair	Remove	15% dead canopy, topped
245	<i>Liquidambar styraciflua</i>	American sweet gum	7.3	-	27	15	Fair	Remove	Topped
246	<b>Liquidambar styraciflua</b>	American sweet gum	10	P	32	14	Good	Remove	
247	<b>Liquidambar styraciflua</b>	American sweet gum	8.8	P	30	15	Good	Remove	
248	<b>Liquidambar styraciflua</b>	American sweet gum	9.7	P	30	16	Good	Remove	
249	<b>Liquidambar styraciflua</b>	American sweet gum	9.3	P	32	15	Good	Remove	
250	<b>Liquidambar styraciflua</b>	American sweet gum	8.6	P	30	14	Good	Remove	
251	<b>Liquidambar styraciflua</b>	American sweet gum	11.9	P	32	20	Good	Remove	
252	<b>Pyrus calleryana</b>	Ornamental pear	19	P	38	28	Fair	Remove	15% dead canopy, mistletoe
253	<b>Pyrus calleryana</b>	Ornamental pear	15.5	P	34	26	Fair	Remove	15% dead canopy, mistletoe
254	<b>Pyrus calleryana</b>	Ornamental pear	20.5	P	40	38	Fair	Remove	15% dead canopy, mistletoe
255	<i>Eriobotrya deflexa</i>	Bronze loquat	6.2	-	16	8	Fair	Remove	Hard prune, slime flux at cuts
256	<i>Pyrus calleryana</i>	Ornamental pear	7.1	-	14	9	Fair	Remove	Heavy mistletoe
257	<b>Pyrus calleryana</b>	Ornamental pear	8.2	P	121	12	Fair	Remove	15% dead canopy, hard prune, unbalanced canopy
258	<i>Eriobotrya deflexa</i>	Bronze loquat	7.7	-	18	14	Good	Remove	
259	<i>Eriobotrya deflexa</i>	Bronze loquat	6.3	-	14	10	Fair	Remove	20% dead canopy, pruned

APPENDIX A: Results of the 2481 Deerwood Drive Property Tree Survey. Trees meeting the City of SanRamon Protected Tree definition are indicated in bold font.

Tree #	Species	Common Name	Trunk diameter @ 54" above grade (inches)	Protected (P)	Approx. Height (feet)	Approx. Canopy Spread (feet)	General Condition*	Retain/Remove	Comments
260	<i>Eriobotrya deflexa</i>	Bronze loquat	7.5	-	16	16	Fair	Remove	15% dead canopy
261	<i>Pyrus calleryana</i>	Ornamental pear	17.4	P	36	26	Good	Remove	Mistletoe
262	<i>Pyrus calleryana</i>	Ornamental pear	17.1	P	36	24	Good	Remove	Mistletoe
263	<i>Pyrus calleryana</i>	Ornamental pear	20.1	P	34	34	Fair-	Remove	20% dead canopy, 10" dia. branch failure @10', heavy mistletoe
264	<i>Robinia x ambigua</i>	Flowering locust	11	P	38	28	Good	Retain	Offsite
Tree #s 265-300 and 351-366 are native oak woodland located on steep slopes south of the developed upper terrace									
265	<i>Quercus agrifolia</i>	Coast live oak	27.5	P	25	36	Very poor	Retain	Failed 30" and 32" diameter trunks at base, epicormic sprouts only on remaining trunk
266	<i>Quercus agrifolia</i>	Coast live oak	27.3+24.3+20+18.5+ 16.8	P	50	55	Fair	Retain	Thin canopy
267	<i>Umbellularia californica</i>	California bay	17.6+10.2	P	38	32	Good	Retain	
268	<i>Quercus agrifolia</i>	Coast live oak	14.4	P	30	22	Fair	Retain	Cluster with #269-272, lower canopy self-thinning
269	<i>Quercus agrifolia</i>	Coast live oak	10.2	P	30	25	Fair	Retain	Cluster, lower canopy self-thinning
270	<i>Quercus agrifolia</i>	Coast live oak	7.5	P	26	12	Fair	Retain	Cluster, lower canopy self-thinning
271	<i>Quercus agrifolia</i>	Coast live oak	11.1	P	26	22	Good	Retain	
272	<i>Quercus agrifolia</i>	Coast live oak	7.9	P	24	16	Fair	Retain	Unbalanced canopy
273	<i>Quercus agrifolia</i>	Coast live oak	26.3@3'	P	42	40	Fair	Retain	Thin canopy
274	<i>Quercus agrifolia</i>	Coast live oak	44	P	48	58	Excellent	Retain	Old giant, full green
275	<i>Quercus agrifolia</i>	Coast live oak	38.5	P	45	75	Good	Retain	
276	<i>Quercus agrifolia</i>	Coast live oak	22.7	P	30	26	Fair	Retain	Base outside canopy, 30° lean NE
277	<i>Quercus agrifolia</i>	Coast live oak	23.6	P	40	54	Fair	Retain	Base outside canopy
278	<i>Quercus agrifolia</i>	Coast live oak	30.4	P	45	45	Fair	Retain	Thin canopy, unbalanced south
279	<i>Quercus lobata</i>	Valley oak	28	P	25	42	Fair	Retain	Base outside canopy, unbalanced SE
280	<i>Quercus agrifolia</i>	Coast live oak	24.6	P	30	30	Fair	Retain	Base outside canopy, unbalanced south, branch failures 12", 10" and 9" diameters
281	<i>Quercus lobata</i>	Valley oak	11.1	P	15	26	Fair	Retain	Base outside canopy, unbalanced east w/50° lean
282	<i>Quercus lobata</i>	Valley oak	11	P	18	26	Fair	Retain	Base outside canopy, unbalanced south w/60° lean
283	<i>Quercus lobata</i>	Valley oak	17.9	P	20	32	Fair	Retain	Offsite
284	<i>Quercus agrifolia</i>	Coast live oak	23+25.7	P	35	45	Fair	Retain	Thin Canopy, cavity @base Offsite
285	<i>Quercus agrifolia</i>	Coast live oak	14+13.3	P	30	42	Good	Retain	
286	<i>Aesculus californica</i>	California buckeye	10.8+13.4	P	30	26	Fair+	Retain	Multi-stemmed from base, 10% dead canopy
287	<i>Aesculus californica</i>	California buckeye	13.2+6.7	P	10	20	Fair	Retain	Significant damage from fallen tree #265

APPENDIX A: Results of the 2481 Deerwood Drive Property Tree Survey. Trees meeting the City of SanRamon Protected Tree definition are indicated in bold font.

Tree #	Species	Common Name	Trunk diameter @ 54" above grade (inches)	Protected (P)	Approx. Height (feet)	Approx. Canopy Spread (feet)	General Condition*	Retain/Remove	Comments
288	<b><i>Aesculus californica</i></b>	California buckeye	10.5+6.2	P	18	20	Poor	Retain	Base outside canopy, unbalanced east w/60° lean, trunk rot main stem 0-10'
289	<i>Aesculus californica</i>	California buckeye	7.4+7.5	-	15	24	Poor	Retain	Base outside canopy, unbalanced ENE w/60° lean trunk root at base
290	<b><i>Aesculus californica</i></b>	California buckeye	10+9.5	P	15	25	Poor	Retain	Base outside canopy, unbalanced SE w/70° lean
291	<i>Aesculus californica</i>	California buckeye	6.7	-	8	10	Very poor	Retain	Significant damage from fallen tree #265
292	<b><i>Aesculus californica</i></b>	California buckeye	8.3	P	10	12	Very poor	Retain	Significant damage from fallen tree #265
293	<b><i>Quercus agrifolia</i></b>	Coast live oak	6.4+7	P	20	16	Good	Retain	
294	<i>Umbellularia californica</i>	California bay	6.7+7.5	-	25	20	Good	Retain	
295	<b><i>Quercus agrifolia</i></b>	Coast live oak	34.3+24.5	P	50	48	Poor	Retain	34.3" trunk-rot 60% @base, 24.5" trunk failed @base – re-rooted
296	<b><i>Quercus agrifolia</i></b>	Coast live oak	18	P	30	32	Poor	Retain	Base outside canopy, unbalanced north w/60° lean, canopy thin w/ 20% dead
297	<b><i>Quercus agrifolia</i></b>	Coast live oak	23.5	P	35	40	Poor	Retain	Canopy thin w/40% dead
298	<b><i>Umbellularia californica</i></b>	California bay	9.1	P	28	20	Fair	Retain	Upright shoot from 2" of horizontal trunk
299	<b><i>Quercus agrifolia</i></b>	Coast live oak	20+11.5	P	36	24	Fair	Retain	10" dia. failed brace @5', canopy unbalance south
300	<b><i>Quercus agrifolia</i></b>	Coast live oak	8.8+9.5+6.7+6.5	P	20	38	Fair	Retain	Trunk rot @base, canopy unbalanced west w/70° lean, suppressed –natural lion tailed
Tree tag #s 301-349 are intentionally skipped									
351	<b><i>Quercus agrifolia</i></b>	Coast live oak	26	P	30	40	Fair	Retain	Base outside canopy, unbalanced west
352	<b><i>Umbellularia californica</i></b>	California bay	14.3+17+9.3	P	40	52	Good	Retain	
353	<b><i>Quercus agrifolia</i></b>	Coast live oak	19.4+24	P	40	42	Good	Retain	
354	<b><i>Quercus agrifolia</i></b>	Coast live oak	19+26.8	P	48	44	Excellent	Retain	
355	<b><i>Quercus agrifolia</i></b>	Coast live oak	8.2	P	26	26	Fair	Retain	Base outside canopy, unbalanced NW, suppressed
356	<b><i>Aesculus californica</i></b>	California buckeye	21.5	P	38	32	Good	Retain	
357	<b><i>Quercus agrifolia</i></b>	Coast live oak	12.3+10.1	P	36	28	Good-	Retain	Offsite
358	<b><i>Quercus agrifolia</i></b>	Coast live oak	9+7	P	26	15	Fair-	Retain	Canopy unbalanced SW, bronze leaves – spider mites
359	<b><i>Quercus agrifolia</i></b>	Coast live oak	6	P	26	8	Fair-	Retain	Thin canopy, suppressed
360	<b><i>Quercus agrifolia</i></b>	Coast live oak	9.1+7.5	P	28	20	Good-	Retain	
361	<b><i>Quercus agrifolia</i></b>	Coast live oak	13+7.9	P	26	20	Good	Retain	
362	<b><i>Umbellularia</i></b>	California bay	9.9+19.1	P	42	32	Good	Retain	

APPENDIX A: Results of the 2481 Deerwood Drive Property Tree Survey. Trees meeting the City of SanRamon Protected Tree definition are indicated in bold font.

Tree #	Species	Common Name	Trunk diameter @ 54" above grade (inches)	Protected (P)	Approx. Height (feet)	Approx. Canopy Spread (feet)	General Condition*	Retain/Remove	Comments
	<b>californica</b>								
363	<i>Quercus agrifolia</i>	Coast live oak	7	P	22	18	Good	Retain	
364	<i>Quercus agrifolia</i>	Coast live oak	26.6+15.5+10.3	P	45	50	Good	Retain	
365	<i>Quercus agrifolia</i>	Coast live oak	25.5	P	28	28	Fair	Retain	Base outside of canopy, unbalanced NE
366	<i>Quercus agrifolia</i>	Coast live oak	32.6	P	40	60	<b>Dead</b>	Remove	Hazard risk – dead branches overhanging overlook deck on south side of office complex

\*General Condition: E=Excellent (90-100% healthy foliage, free of defects, ideal form and function for site); G=Good (75-90% healthy foliage, minor correctable defects, good form and function); F=Fair (50 to 75% healthy foliage, moderate defects and/or substantial asymmetry compromising function or aesthetics); P=Poor (20-50% healthy foliage with significant defects, low life expectancy); VP=Very Poor(5-20% healthy foliage with significant defects, recovery unlikely); D = Dead (less than 5% healthy foliage).

**APPENDIX B:**  
PHOTOS OF PROTECTED TREES THAT WILL BE REMOVED, and OFFSITE TREES THAT COULD  
POTENTIALLY BE IMPACTED BY PROJECT DEVELOPMENT

**Appendix B: Photos – Protected Trees to be removed and Offsite Trees that could be impacted by Project Development**



**Protected Trees 202-204 – ornamental pear (*Pyrus callaryana*)**



**Protected Trees 204-207 – ornamental pear**



**Protected Trees 206-209** – ornamental pear



**Protected Trees 211-214** – ornamental pear





Offsite trees: **Tree 15** – coast live oak (*Quercus agrifolia*), **Tree 16** – coast redwood (*Sequoia sempervirens*)



Offsite trees: **Trees 217-219** – coast redwood



Offsite trees: **Trees 217-219** – coast redwood



**Tree 222** – Canary Island pine (*Pinus canariensis*), **Tree 223** – red willow (*Salix laevigata*)



**Protected Tree 225** – coast live oak



**Protected Tree 226** – coast live oak



**Protected Trees 227, 229 and 228 – coast live oak**



**Protected Trees 228-233 – coast live oak**



**Protected Trees 234 and 235 – coast live oak**



**Protected Trees 236-238 – coast live oak**



**Protected Trees 238, 237 and 239 – coast live oak**



**Protected Trees 240-243 – coast live oak**



**Protected Tree 243** – coast live oak



**Protected Trees 246-251** – American sweet gum



**Protected Trees 252-254 – ornamental pear**



**Protected Tree 257– ornamental pear**





**Protected Trees 261-262 – ornamental pear**



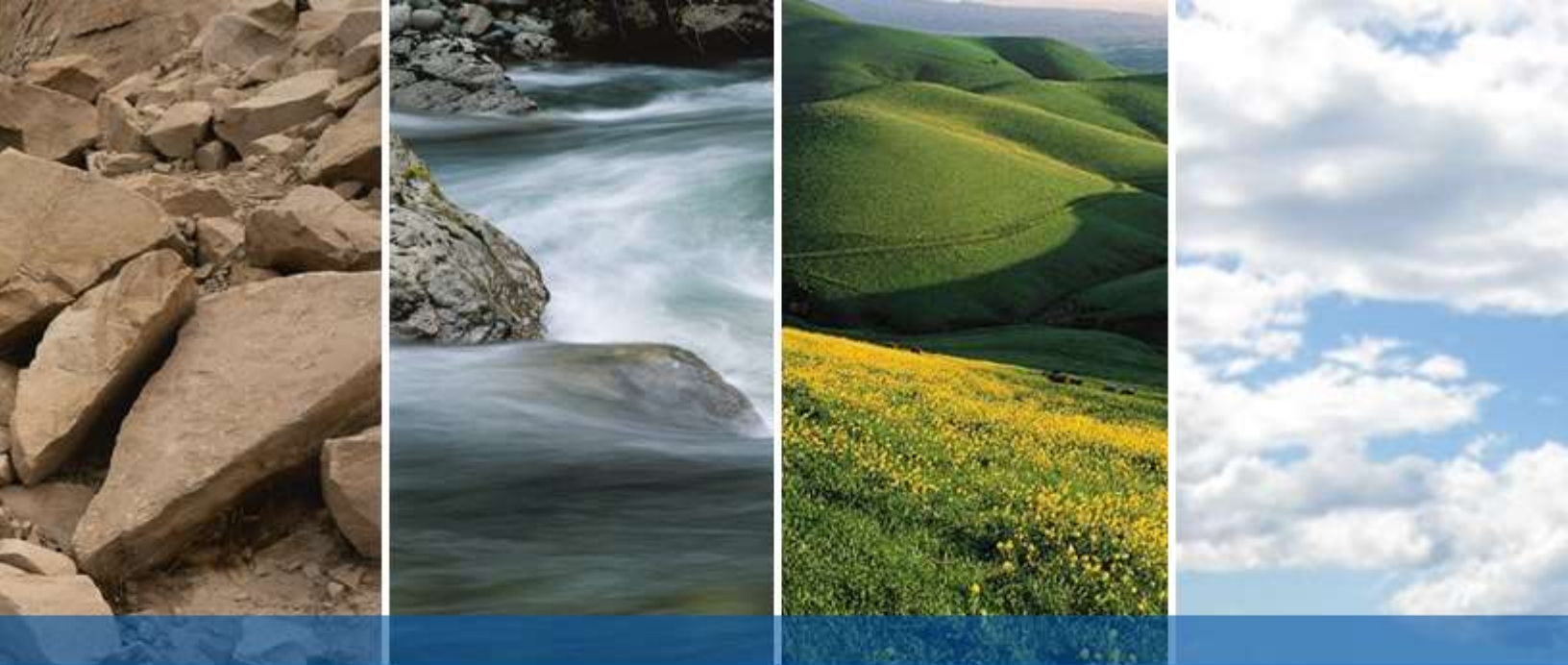
**Protected Tree 263– ornamental pear**



**Offsite Protected Tree 24** – Flowering locust (*Robinia x ambigua*)



**Tree 366** – dead valley oak (*Quercus lobata*), potential hazard risk



**2481 DEERWOOD DRIVE**  
SAN RAMON, CALIFORNIA

## **GEOTECHNICAL FEASIBILITY REPORT**

**SUBMITTED TO**  
Ms. Heide Antonescu  
Trumark Homes, LLC  
3001 Bishop Drive, Suite 100  
San Ramon, CA 94583

**PREPARED BY**  
ENGEO Incorporated

August 18, 2021

**PROJECT NO.**  
19202.000.001

Project No.  
**19202.000.001**

August 18, 2021

Ms. Heide Antonescu  
Trumark Homes, LLC  
3001 Bishop Drive, Suite 100  
San Ramon, CA 94583

Subject: 2481 Deerwood Drive  
San Ramon, California

## GEOTECHNICAL FEASIBILITY REPORT

Dear Ms. Antonescu:

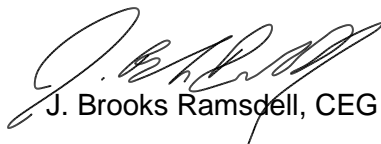
With your authorization, we completed this geotechnical feasibility report for your 2481 Deerwood Drive project in San Ramon, California. The accompanying geotechnical feasibility report presents our geotechnical observations, as well as our preliminary recommendations regarding multi-family residential development at the site.

Our findings indicate that the study area is suitable for the proposed residential development provided the preliminary recommendations and guidelines provided in this report are implemented during project planning. The scope of this report was limited to an initial study; a design-level geotechnical exploration with field exploration and collection and laboratory testing of soil samples will be required to further explore geotechnical hazards identified in this report and develop geotechnical parameters and recommendations for grading plan preparation and foundation design.

We are pleased to have been of service to you on this project and are prepared to consult further with you and your design team as the project progresses.

Sincerely,

ENGEO Incorporated



J. Brooks Ramsdell, CEG

jbr/mt/cjn



Macy Tong, GE



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## 1.0 INTRODUCTION

### 1.1 PURPOSE AND SCOPE

The purpose of this preliminary geotechnical assessment is to provide preliminary conclusions and recommendations for the proposed multi-family residential development. The information presented in this report may be used for general land planning purposes.

The scope of services included:

- Reviewing available literature, geologic maps, historic aerial photographs, and previous geotechnical reports for the site vicinity area.
- Performing a site reconnaissance.
- Conducting preliminary geotechnical data analyses.
- Preparing this report summarizing our initial recommendations for the proposed site development and recommendations for additional studies.

We prepared this report exclusively for Trumark Homes, LLC and their design team consultants. ENGEO should review any changes made in the character, design or layout of the development to modify the conclusions and recommendations contained in this report, as necessary. This document may not be reproduced in whole or in part by any means whatsoever, nor may it be quoted or excerpted without the express written consent of ENGEO.

### 1.2 SITE LOCATION AND DESCRIPTION

The property is located at the south side of Deerwood Drive and west of Claremont Crest Way as shown on the Vicinity Map, Figure 1. The project site comprises approximately 4.43 acres of land. Currently, the property is occupied by a two-story office building with landscaping areas surrounding the building and the parking and access drives are located along the perimeter of the developed area. The existing building is located on a relatively level area at the northern portion of the property and the southern portion of the site consists of sloping ground with scattered mature trees and slopes towards Bollinger Canyon Creek near Crow Canyon Road. A retaining wall was observed along the southeast corner of the parking lot. A deck was located south of the existing building.

Existing elevations at the relatively level developed portion of the site range from approximately 640 feet at the northwest corner of the property to 630 feet at the southern perimeter of the paved access road located south of the existing building. Existing elevations at the undeveloped southern portion of the site range from approximately 630 feet near the southern perimeter of the paved area to approximately 550 feet along Bollinger Canyon Creek. Existing slopes at the southern portion of the site that slope down towards the creek range from 2:1 (horizontal:vertical) near the heads of the steep sided swales to less than 6:1 on the more gently sloping spur ridges.

According to a map by DeBolt Civil Engineering and dated January 2001, a 10-foot-wide storm drain easement existed at the northeastern corner of the site and then ran along the western property line. The majority of the open-space slope was mapped as storm, flood, and surface water drainage easement.

## 1.3 PROPOSED DEVELOPMENT

Based on the provided site plan (Figure 2), the proposed development will include construction of eight 3-story townhome buildings for 53 dwelling units within the northern 2.6-acre portion of the site, approximately located within the current development area, and the remaining area of the site will remain as open space. The site improvements will also include a main road from Deerwood Drive, several access drives, a parking area, underground utilities, and landscaping. We anticipate, in order to provide a relatively level drainable area for the site, retaining walls or graded slopes may be necessary.

## 2.0 FINDINGS

### 2.1 SITE HISTORY

Based on the review of historical aerial photographs, the site was undeveloped until sometime between 1982 and 1987. Prior to development, the site has been used primarily as ranch land. Based on the historical topography of the adjacent residential development to the east of the project site, the original grades estimated within the developed area of the project site to be sloping from approximately Elevation 640 feet near Deerwood Drive to Elevation 610 feet at the southern end of the project. Based on a review of historic topography of the site, it appears that grading for the current development of the site involved relatively minor cuts at the northern portion of the site and relatively minor cuts and fill at the southern portion of the site.

### 2.2 GEOLOGY AND SEISMICITY

#### 2.2.1 Geology

The site is located within the Coast Range Geomorphic Province. The Coast Range province includes many separate ranges, coalescing mountain masses, and several major structural valleys. These mountain ranges and basement rock are largely made up of marine sedimentary rocks that have been highly faulted, folded, and altered by orogenic processes. The valleys and margins of the range are generally filled with Quaternary age alluvial deposits that consist of gravel, sand, silt, and clay.

As shown on Figure 3, Dibblee (2005) mapped the site underlain by Pliocene nonmarine sedimentary rock (Tor). In this area of San Ramon, these rocks are characteristic of the Garrity member of the Contra Costa Group (Tcug) as described by Wagner (1975). This rock unit is predominantly weakly indurated conglomerate, sandstone, and mudstone. A few thin tuff beds are also present in this formation. Quaternary alluvium (Qa) was mapped along the Bollinger Canyon Creek near Crow Canyon Road and consists of gravel, sand, and clay of valley areas.

According to landslide mapping by Nilsen (1975), no landslides are mapped at the site. Nilsen does map colluvial deposits on the slopes along Bollinger Canyon Creek.

Based on our review of historic aerial photographs and our site reconnaissance visit, we anticipate the presence of colluvial deposits (Qc) within the south trending swales at the southern portion of the site (Figure 2). Colluvium is a soil deposit formed from downslope movement and deposition of residual soil by such processes as slope wash, sloughing/shallow sliding, and creep. Colluvium in this area typically consists of clay with some sand and scattered rock fragments.

## 2.2.2 Seismicity

The site is not located within a designated Alquist-Priolo Earthquake Fault Zone and no known surface expression of active faults are believed to exist within the site. The site does lie within a seismically active region and there are numerous faults in the area that are considered active. The nearest known active fault is the Calaveras fault, which is located approximately 3,700 feet east of the site as shown on Figure 4. The following table summarizes the distances to mapped, active regional faults and estimated magnitudes within approximately 30 miles from the site. We used the USGS Spatial Query tool that is based on USGS 2008 National Seismic Hazard Maps. Refer to Figure 5 for a Regional Faulting and Seismicity map that shows known USGS faults and former earthquake epicenters and magnitudes.

**TABLE 2.2.2-1: Active Faults Capable of Producing Significant Ground Shaking at the Site**

FAULT NAME	DISTANCE FROM SITE (MILES)	MAXIMUM MOMENT MAGNITUDE
Calaveras	0.7	7
Mount Diablo Thrust	3¾	6.7
Hayward-Rodgers	8	7.3
Green Valley	8¾	6.8
Greenville	11½	7
Great Valley	18½	6.9
San Andreas	26	7.9

## 2.3 SURFACE CONDITIONS

Surface conditions observed at the time of our site visit on August 11, 2021, consisted of landscape strips and asphaltic pavement covering around the existing building at the majority of the developed portion of the site. Existing fill will likely be encountered beneath the building pad and pavement at the southern portion of the developed area. We anticipate that past grading occurred at the site to create the existing building pad by cutting into the natural slope at the northern area and filling at the lower elevations at the southern area.

## 2.4 FIELD EXPLORATIONS AND OBSERVATIONS OF SITE VICINITY

We conducted several field explorations at the residential subdivision, Cambria, Tract 8713/8113, located east of the project site in 1980, 1985, and 1998. Based on the geotechnical borings from this nearby site (ENGEO, 1998), the soil consisted of artificial fill at the former building pads over native soil and bedrock. Native soil consisted of silty clay to sandy clay and clayey sand with various amounts of gravel. Bedrock was encountered at a depth ranging from 2 to 15 feet below the ground surface at the time of exploration and consisted of claystone, sandstone, and siltstone. The near-surface soil has a plasticity index (PI) ranging from 11 to 20. The clayey soil at depth has a PI of 23 to 27. This is an indication that the clayey soil has variable expansion potential, which ranges from low to high.

Groundwater was observed seeping at a depth of 3 feet in a boring drilled near Deerwood Drive and 11 feet in the borings drilled at the western portion of the nearby site. Groundwater was measured 4 days after drilling in the 1985 borings at a depth of between 11 and 18 feet.



In addition, subsurface seepage was observed in the joint trench excavation during utility installation in 1999 near the western property line of Tract 8713 (ENGEО, 1999). It was reported that water seepage was entered from the subject site into the granular backfill of the storm drain facilities at the adjacent site.

Fluctuations in groundwater levels should be expected during seasonal changes or over a period of years because of precipitation changes, perched zones, changes in drainage patterns, or irrigation.

### 3.0 DISCUSSION AND CONCLUSIONS

Based upon this preliminary study, it is our opinion that the project site is suitable for the proposed residential development. Based on this preliminary geotechnical assessment, the potential geotechnical issues for the site include the following.

- Potential seismic hazards
- Liquefaction potential of sandy deposits
- Presence of existing non-engineered fill
- Presence of potentially expansive soil
- Potential for subsurface seepage and shallow groundwater
- Stability of the open-space slope

These potential hazards and other geotechnical issues relevant to the study area are discussed below.

A design-level geotechnical exploration should be performed, which may include exploratory borings and test pits, and laboratory soil testing to provide data for specific recommendations regarding grading, foundations, and drainage for the proposed development. The exploration will also allow for more detailed evaluations of the geotechnical and geological issues and afford the opportunity to provide recommendations regarding techniques and procedures to be implemented during construction to mitigate potential geotechnical/geological hazards.

#### 3.1 SEISMIC HAZARDS

Potential seismic hazards resulting from a nearby moderate to major earthquake can generally be classified as primary and secondary. The primary effect is ground rupture, also called surface faulting. The common secondary seismic hazards include ground shaking, liquefaction, and lateral spreading. The following sections present a discussion of these hazards as they apply to the site. Based on topographic and lithologic data, the risk of regional subsidence/uplift, landslides, tsunamis, or seiches is considered low to negligible at the site.

##### 3.1.1 Ground Rupture

As described above, the site is not located within a State of California Earthquake Fault Hazard Zone (Figure 4) and no known faults cross the site. Therefore, it is our opinion that ground rupture is unlikely at the subject property.

### 3.1.2 Ground Shaking

An earthquake of moderate to high magnitude generated within the San Francisco Bay Region could cause considerable ground shaking at the site, similar to that which has occurred in the past. To mitigate the shaking effects, all structures should be designed using sound engineering judgment and the latest California Building Code (CBC) requirements, as a minimum.

Seismic design provisions of current building codes generally prescribe minimum lateral forces, applied statically to the structure, combined with the gravity forces of dead-and-live loads. The code-prescribed lateral forces are generally considered to be substantially smaller than the comparable forces that would be associated with a major earthquake. Therefore, structures should be able to: (1) resist minor earthquakes without damage, (2) resist moderate earthquakes without structural damage but with some nonstructural damage, and (3) resist major earthquakes without collapse but with some structural as well as nonstructural damage. Conformance to the current building code recommendations does not constitute any kind of guarantee that significant structural damage would not occur in the event of a maximum magnitude earthquake; however, it is reasonable to expect that a well-designed and well-constructed structure will not collapse or cause loss of life in a major earthquake (SEAOC, 1996).

### 3.1.3 Liquefaction

Liquefaction is a phenomenon in which saturated cohesionless soil is subject to a temporary loss of shear strength because of pore pressure buildup under the cyclic shear stresses associated with earthquakes.

As shown on the Liquefaction Hazard Map (Witter, 2006, Figure 6), the site is mapped within an area with very low risk of liquefaction potential. As described in the previous section, native soil consisted of silty clay to sandy clay and clayey sand with various amounts of gravel was found in the site vicinity over shallow bedrock. The clayey sand layers were typically dense to very dense. Based on these conditions, the liquefaction potential is considered to be low. However, liquefaction potential of the site granular deposits will be evaluated during the design-level geotechnical study.

### 3.1.4 Lateral Spreading

Lateral spreading is a failure within a nearly horizontal soil zone (possibly due to liquefaction) that causes the overlying soil mass to move toward a free face or down a gentle slope. The site liquefaction potential is considered to be low. The potential for lateral spreading will be assessed during design-level study.

## 3.2 EXISTING FILL

As discussed in the previous section, existing fill will likely be encountered beneath the building pad and pavement throughout the site at varying thicknesses. Documentation for the compaction condition of the existing fill was not available at the time of report preparation. The presence of undocumented fill can lead to building foundation movement and pavement subgrade instability. Treatment of existing undocumented fill typically includes removal and recompaction of soil.

Evaluation of existing fill and specific mitigation measures will be made during design-level geotechnical study. The typical mitigation scheme includes removing the fill and recompact the excavated soil as engineered fill.

### **3.3 EXPANSIVE SOIL**

Based on the laboratory testing conducted on the soil collected at the vicinity of the property, the near-surface soil has a low to high expansive potential.

Expansive soil shrinks and swells as a result of moisture changes. This can cause heaving and cracking of slabs-on-grade, pavements, and structures founded on shallow foundations. Building damage due to volume changes associated with expansive soil can be reduced by: (1) using a rigid mat or slab foundation which is designed to resist the deflections associated with the soil expansion, (2) deepening the foundations to below the zone of moisture fluctuation, i.e. by using deep footings or drilled piers, and/or (3) using footings at normal shallow depths but bottomed on a layer of select fill having a low expansion potential. Post-tensioned slab foundations are the preferred foundation system for the residential construction at the subject site. Preliminary design recommendations for this foundation type are contained in the later section of this report.

Successful construction on expansive soil requires special attention during grading. It is imperative to keep exposed soil moist by occasional sprinkling. If the soil dries, it is extremely difficult to remoisturize the soil (because of their clayey nature) without excavation, moisture conditioning, and recompaction.

Conventional grading operations, incorporating fill placement specifications tailored to the expansive characteristics of the soil, and use of a mat foundation (either post-tensioned or conventionally reinforced) are common, generally cost-effective measures to address the expansive potential of the foundation soil. Laboratory testing and analysis to assess the expansion potential of near-surface soil should be performed in the design-level study.

### **3.4 GROUNDWATER AND SEEPAGE**

Review of reports available from the adjacent site east of the project site reveal that natural springs or subsurface seepage are possible in the proposed development area. The presence of subsurface seepage may require the use of subsurface drainage systems. The presence of subsurface seepage should be further explored during the design-level study and monitored during construction activity.

### **3.5 FLOODING**

According to the map published by FEMA (2009), the area south of the current developed portion of the site is mapped within Zone A, a special flood hazard area. The project civil engineer should evaluate the flooding potential of the site.

### **3.6 STABILITY OF THE OPEN-SPACE SLOPE**

The relatively steep portions of the open-space slope at the southern portion of the site are subject to slope instability, primarily in areas where colluvial deposits are present. We anticipate the potential for some regressions of the steep sided swales located south of the existing developed portion of the site.

In order to provide a relatively level drainable building pads for the site, retaining walls or graded slopes may be necessary along the southern edge of the proposed development area. In order to mitigate the potential for slope instability from impacting the proposed development, we anticipate the need for intervening stabilization measures to be implemented. Such measures

could include construction of a drained keyway excavated into bedrock, or construction of retaining walls supported on drilled piers that are extended into bedrock.

### 3.7 CUT AND CUT-FILL TRANSITION LOT TREATMENT

We anticipate that significant variations in material properties, and particularly shrink/swell characteristics, will occur in the cut areas and in the areas of cut-and-fill transition. Such situations may have deleterious effects on building performance if not mitigated in the grading of the site. It is, therefore, recommended that the swell potential of the subgrade materials in building areas that are entirely in cut or located over cut-and-fill transitions be made more uniform. This can be accomplished by subexcavating the natural soil cover and the native rock and replacing the subexcavated material with engineered fill. The subexcavation depth should be 3 feet below pad grade for cut-to-fill lots and 2 feet for cut lots. The subexcavated material can be used to backfill the excavation. Specific recommendations for cut and cut-fill transition lot treatment will be provided during the design-level geotechnical exploration based on the proposed grading and lot layout.

### 3.8 DIFFERENTIAL FILL THICKNESS

Depending on cut associated with the removal of undocumented fill and proposed fill at the southern edge of the site, a differential fill thickness condition could possibly occur. When a differential fill thickness across a building footprint is more than 10 feet, remedial grading will include subexcavation to achieve a similar fill thickness across the pad. Specific recommendations for differential fill lot treatment will be provided during the design-level geotechnical exploration based on the proposed grading and lot layout.

## 4.0 PRELIMINARY RECOMMENDATIONS

The following recommendations are for initial land planning, preliminary estimating, and conceptual design purposes. Final recommendations regarding site grading and foundation construction will be provided after site-specific exploration has been undertaken.

### 4.1 2019 CALIFORNIA BUILDING CODE SEISMIC PARAMETERS

Based on the available published geologic map and shallow bedrock encountered at the adjacent site, we consider a Site Class C for use in preliminary foundation design. A design-level geotechnical exploration to include field explorations and laboratory soil testing will be conducted to verify the site class. We provide the 2019 CBC seismic design parameters in Table 4.7-1, which include design spectral response acceleration parameters based on the mapped Risk-Targeted Maximum Considered Earthquake (MCE<sub>R</sub>) spectral response acceleration parameters.

**TABLE 4.7-1: 2019 CBC Seismic Design Parameters**  
Latitude: 37.7740 Longitude: -121.9945

PARAMETER	VALUE
Site Class	C
Mapped MCE <sub>R</sub> Spectral Response Acceleration at Short Periods, S <sub>s</sub> (g)	2.189
Mapped MCE <sub>R</sub> Spectral Response Acceleration at 1-second Period, S <sub>1</sub> (g)	0.811
Site Coefficient, F <sub>A</sub>	1.2

PARAMETER	VALUE
Site Coefficient, $F_v$	1.4
MCE <sub>R</sub> Spectral Response Acceleration at Short Periods, $S_{MS}$ (g)	2.627
MCE <sub>R</sub> Spectral Response Acceleration at 1-second Period, $S_{M1}$ (g)	1.136
Design Spectral Response Acceleration at Short Periods, $S_{DS}$ (g)	1.752
Design Spectral Response Acceleration at 1-second Period, $S_{D1}$ (g)	0.757
MCE <sub>G</sub> Peak Ground Acceleration adjusted for Site Class effects, $PGA_M$ (g)	1.094
Long period transition-period, $T_L$ (sec)	8

## 4.2 FOUNDATION RECOMMENDATIONS

In order to reduce the effects of potentially expansive soil, the foundations should be sufficiently stiff to move as rigid units with minimum differential movements. This can be accomplished with construction of relatively rigid mat foundations, such as post-tensioned structural mats.

A uniform mat thickness of 10 to 12 inches can be anticipated for preliminary purposes. We anticipate that structural mats constructed on swelling soil will move differentially; therefore, structural mats may require stiffening to reduce differential movements due to swelling/shrinkage to a value compatible with the type of structure that will be constructed.

Post-tensioned mats should be underlain with a moisture reduction system. In addition, moisture conditioning of the building foundation subgrade should be conducted immediately prior to foundation construction. The subgrade should not be allowed to dry out prior to concrete placement.

## 5.0 ADDITIONAL RECOMMENDATIONS

Based upon our findings and assuming that the project proceeds into the next phase of development, additional geotechnical studies will be necessary. These studies will include:

- A detailed geotechnical exploration report for the proposed development. The site exploration should include exploratory borings and test pits, as appropriate. The exploration is necessary to characterize subsurface conditions, collect soil samples for laboratory analysis, and determine site-specific recommendations for construction.
- A review of final construction plans and specifications, including grading plans, and foundation plans and calculations for conformance with our recommendations.

Although these studies were not included in our current scope of services, we believe that they are important in expediting approval by governing agencies and achieving cost-effective construction. We will be pleased to provide an estimate for these additional services once final plans are available

## 6.0 LIMITATIONS AND UNIFORMITY OF CONDITIONS

This preliminary report presents geotechnical recommendations for the project site at 2481 Deerwood Drive. If changes occur in the nature or design of the project, we should be allowed to review this report and provide additional recommendations, if any. It is the responsibility

of the owner to transmit the information and recommendations of this report to the appropriate organizations or people involved in design of the project, including but not limited to developers, owners, buyers, architects, engineers, and designers. The conclusions and recommendations contained in this report are solely professional opinions and are valid for a period of no more than 2 years from the date of report issuance.

We strived to perform our professional services in accordance with generally accepted principles and practices currently employed in the area; no warranty is express or implied. There are risks of earth movement and property damages inherent in building on or with earth materials. We are unable to eliminate all risks; therefore, we are unable to guarantee or warrant the results of our services.

This report is based upon field and other conditions discovered at the time of report preparation. We developed this report without subsurface exploration data. Considering possible underground variability of soil and groundwater, additional costs may be required to complete the project. We recommend that the owner establish a contingency fund to cover such costs. If unexpected conditions are encountered, ENGEO must be notified immediately to review these conditions and provide additional and/or modified recommendations, as necessary.

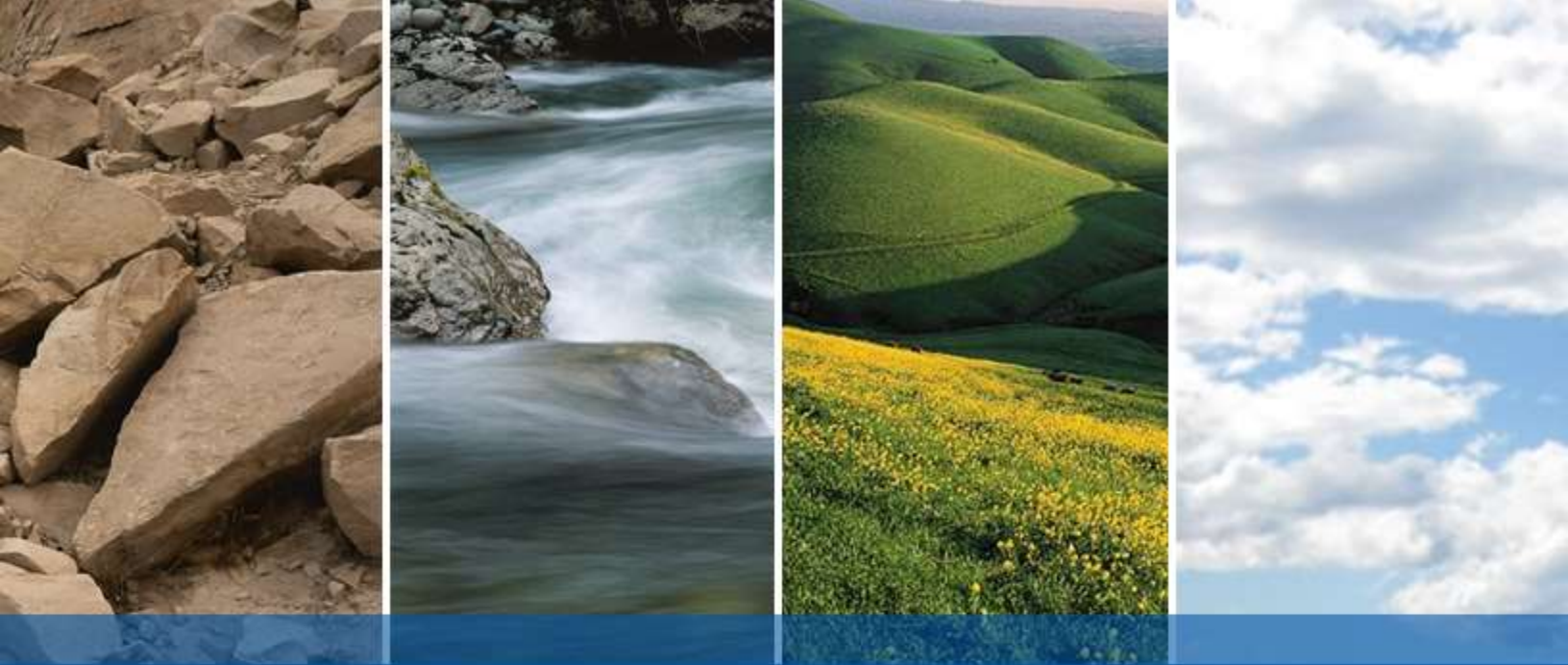
Our services did not include excavation sloping or shoring, soil volume change factors, flood potential, or a geohazard exploration. In addition, our geotechnical exploration did not include work to determine the existence of possible hazardous materials. If any hazardous materials are encountered during construction, the proper regulatory officials must be notified immediately.

This document must not be subject to unauthorized reuse, that is, reusing without written authorization of ENGEO. Such authorization is essential because it requires ENGEO to evaluate the document's applicability given new circumstances, not the least of which is passage of time.

Actual field or other conditions will necessitate clarifications, adjustments, modifications or other changes to ENGEO's documents. Therefore, ENGEO must be engaged to prepare the necessary clarifications, adjustments, modifications or other changes before construction activities commence or further activity proceeds. If ENGEO's scope of services does not include on-site construction observation, or if other persons or entities are retained to provide such services, ENGEO cannot be held responsible for any or all claims arising from or resulting from the performance of such services by other persons or entities, and from any or all claims arising from or resulting from clarifications, adjustments, modifications, discrepancies or other changes necessary to reflect changed field or other conditions.

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## **FIGURES**

**FIGURE 1: Vicinity Map**

**FIGURE 2: Site Plan**

**FIGURE 3: Regional Geologic Map**

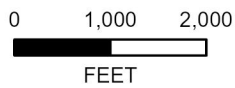
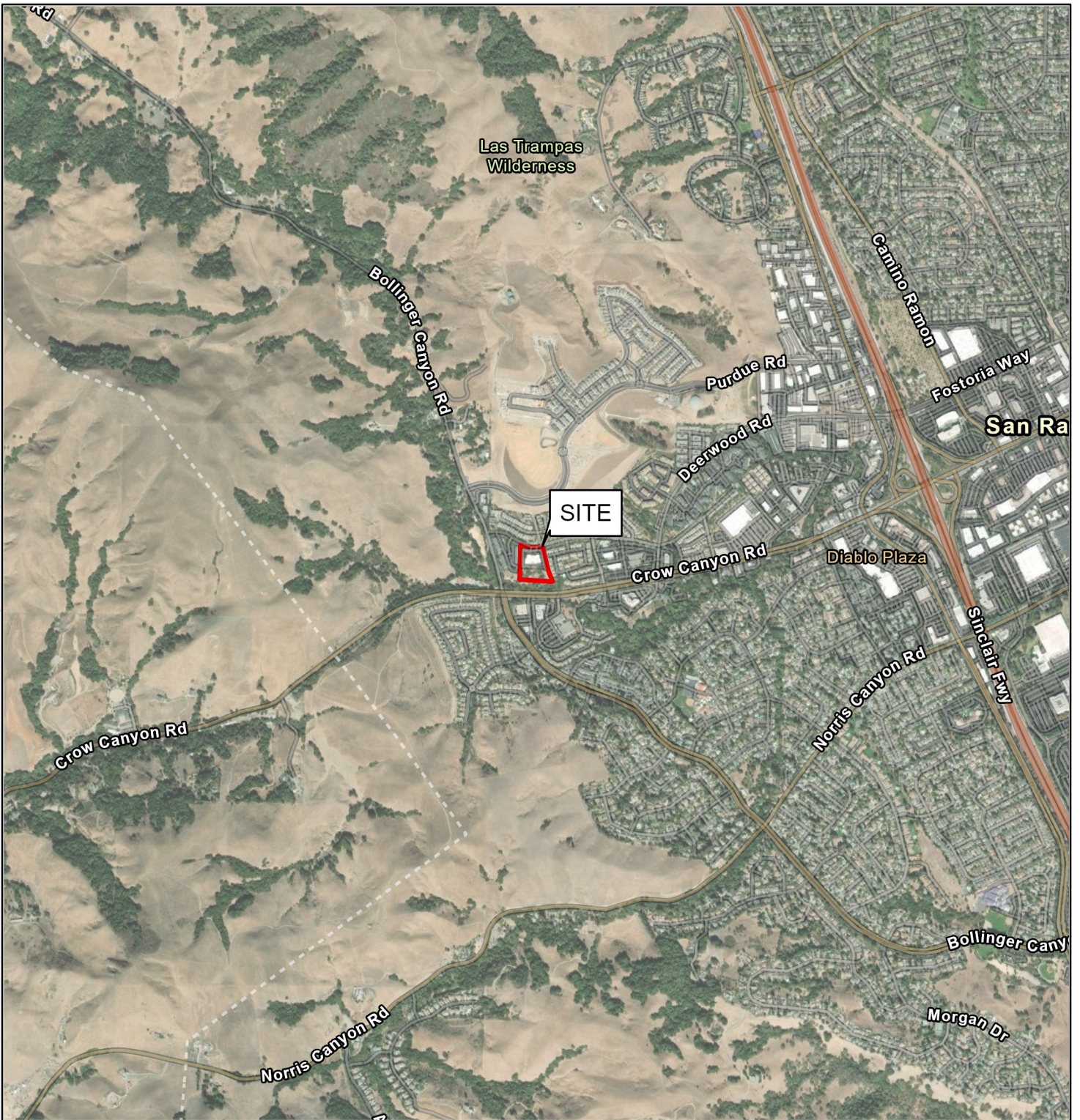
**FIGURE 4: Seismic Hazards Zone Map**

**FIGURE 5: Regional Faulting and Seismicity Map**

**FIGURE 6: Liquefaction Hazard Map**



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BASEMAP SOURCE: ESRI MAPPING SERVICE 11/4/2019



VICINITY MAP  
2481 DEERWOOD DRIVE  
SAN RAMON, CALIFORNIA

PROJECT NO. : 19202.000.001

SCALE: AS SHOWN

DRAWN BY: JV

CHECKED BY: MT

FIGURE NO.

1

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FILE PATH: C:\Driftna\PROJECTS\18000 to 19999\19202\19202000001\Soat\en\GEN\19202000001-2-SitePlan-0821.dwg SWE DATE: 8/13/2021 9:37:50 AM SWEID BY: jiangqin



**EXPLANATION**

ALL LOCATIONS ARE APPROXIMATE

**Qc** COLLUVIUM

**Tcug** GARRITY MEMBER OF CONTRA COSTA GROUP

BASE MAP SOURCE: BING MAPPING SERVICE



**SITE PLAN**  
2481 DEERWOOD DRIVE  
SAN RAMON, CALIFORNIA

PROJECT NO.: 19202.000.001

SCALE: AS SHOWN

DRAWN BY: JV

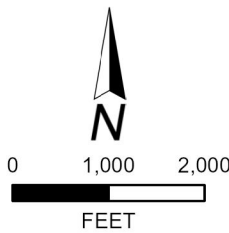
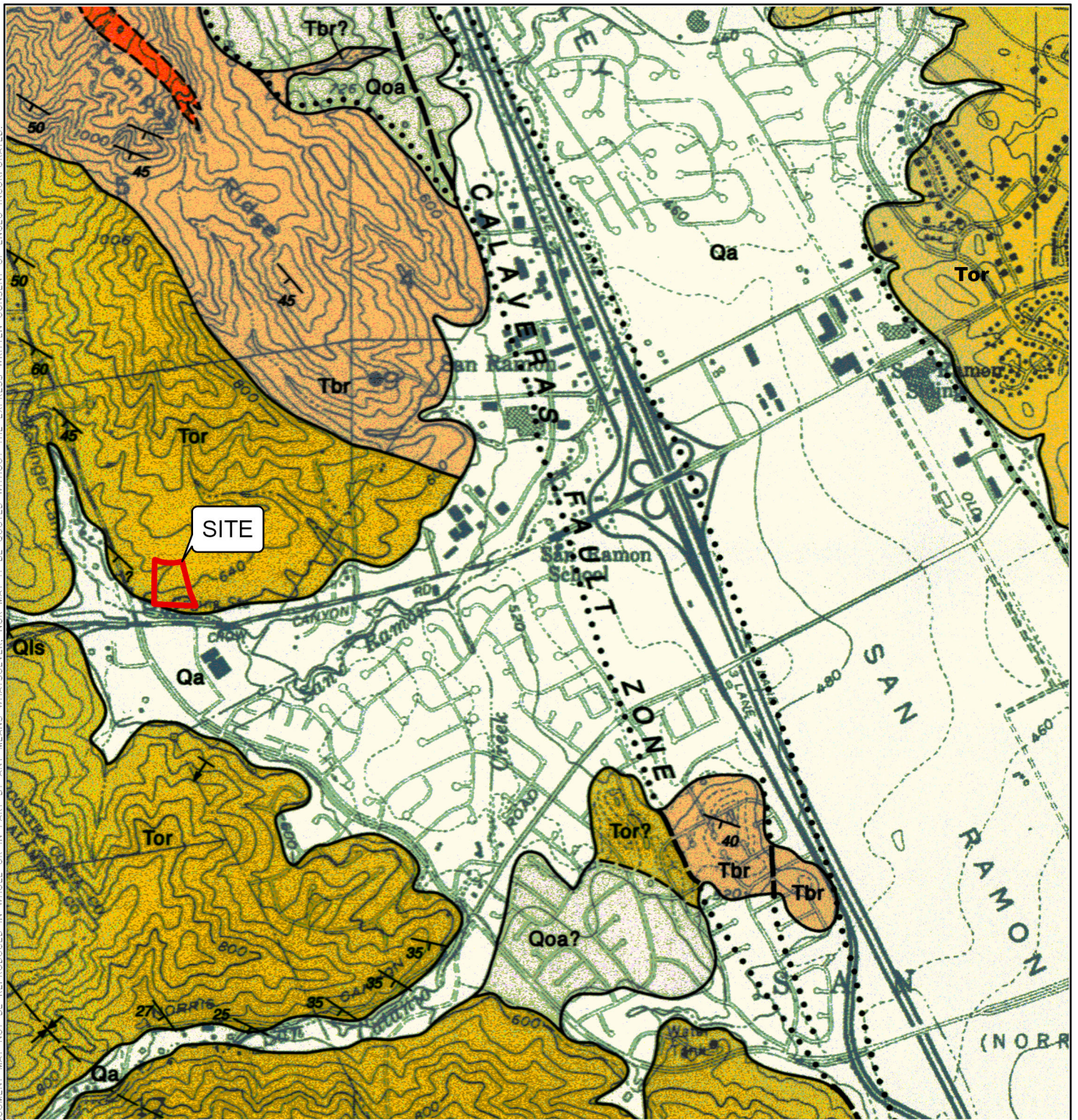
CHECKED BY: MT

FIGURE NO.

**2**

ORIGINAL FIGURE PRINTED IN COLOR

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**EXPLANATION**

- ALL LOCATIONS ARE APPROXIMATE
- Qa** ALLUVIAL PEBBLE GRAVEL
  - Qoa** DISSECTED ALLUVIAL GRAVEL AND SAND
  - Tor** PEBBLE CONGLOMERATE
  - Tbr** BRIONES SANDSTONE
  - Tmc** MONTEREY FORMATION

BASEMAP SOURCE: DIBBLEE, 2005



**REGIONAL GEOLOGIC MAP**  
 2481 DEERWOOD DRIVE  
 SAN RAMON, CALIFORNIA

PROJECT NO. : 19202.000.001

SCALE: AS SHOWN

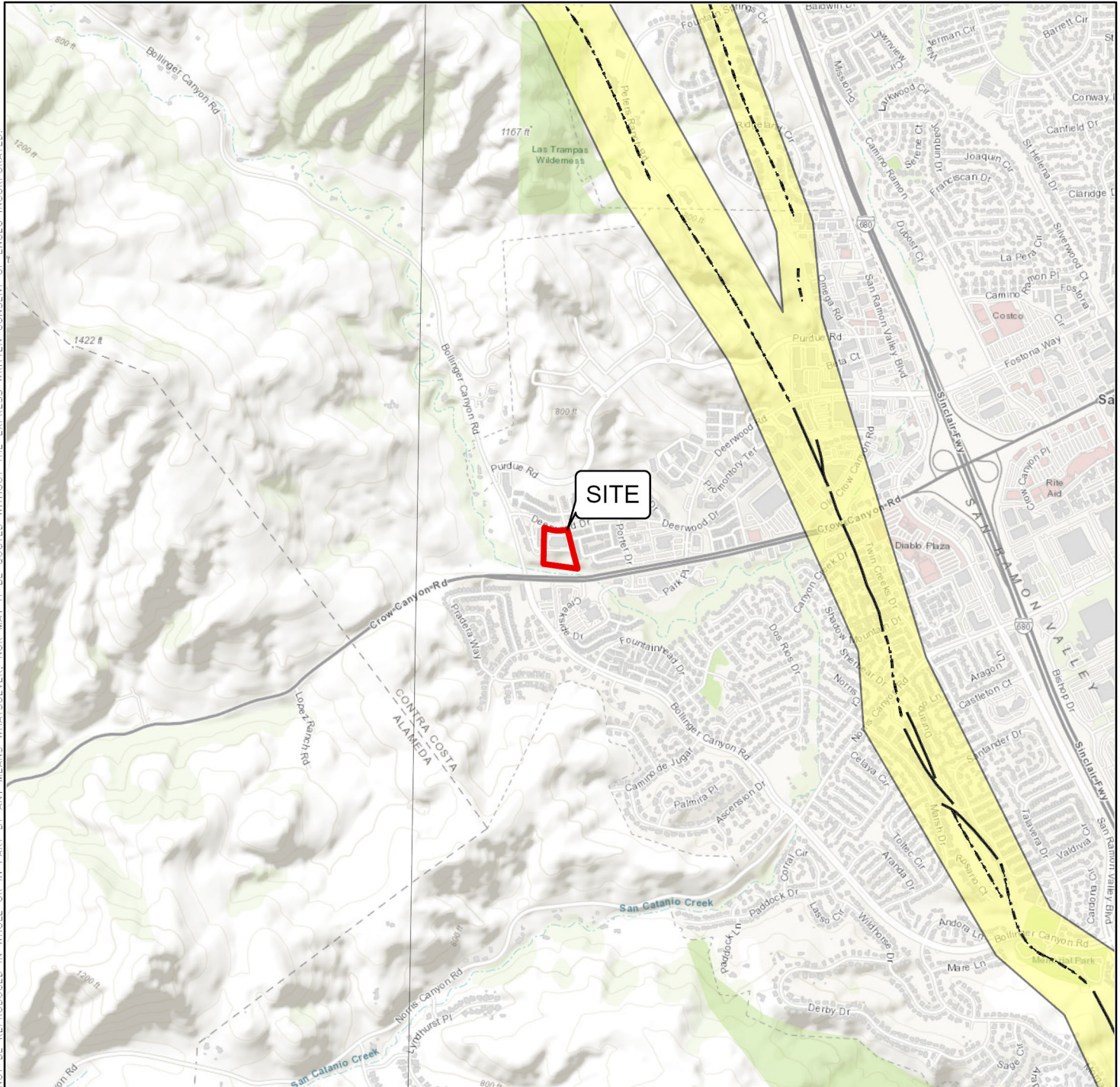
DRAWN BY: JV

CHECKED BY: MT

FIGURE NO.

**3**

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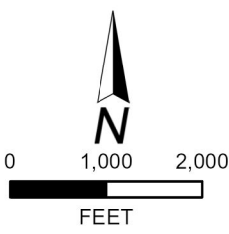


**EXPLANATION**

ALL LOCATIONS ARE APPROXIMATE

- ACCURATELY LOCATED
- - - - INFERRED
- · - · - · APPROXIMATELY LOCATED

EARTHQUAKE FAULT ZONE  
 ZONE BOUNDARIES ARE DELINEATED BY STRAIGHT-LINE SEGMENTS;  
 THE BOUNDARIES DEFINE THE ZONE ENCOMPASSING ACTIVE FAULTS  
 THAT CONSTITUTE A POTENTIAL HAZARD TO STRUCTURES FROM  
 SURFACE FAULTING OR CREEP SUCH THAT AVOIDANCE AS DESCRIBED  
 IN PUBLIC RESOURCES CODE SECTION 2621.5(A) WOULD BE REQUIRED



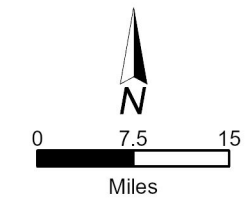
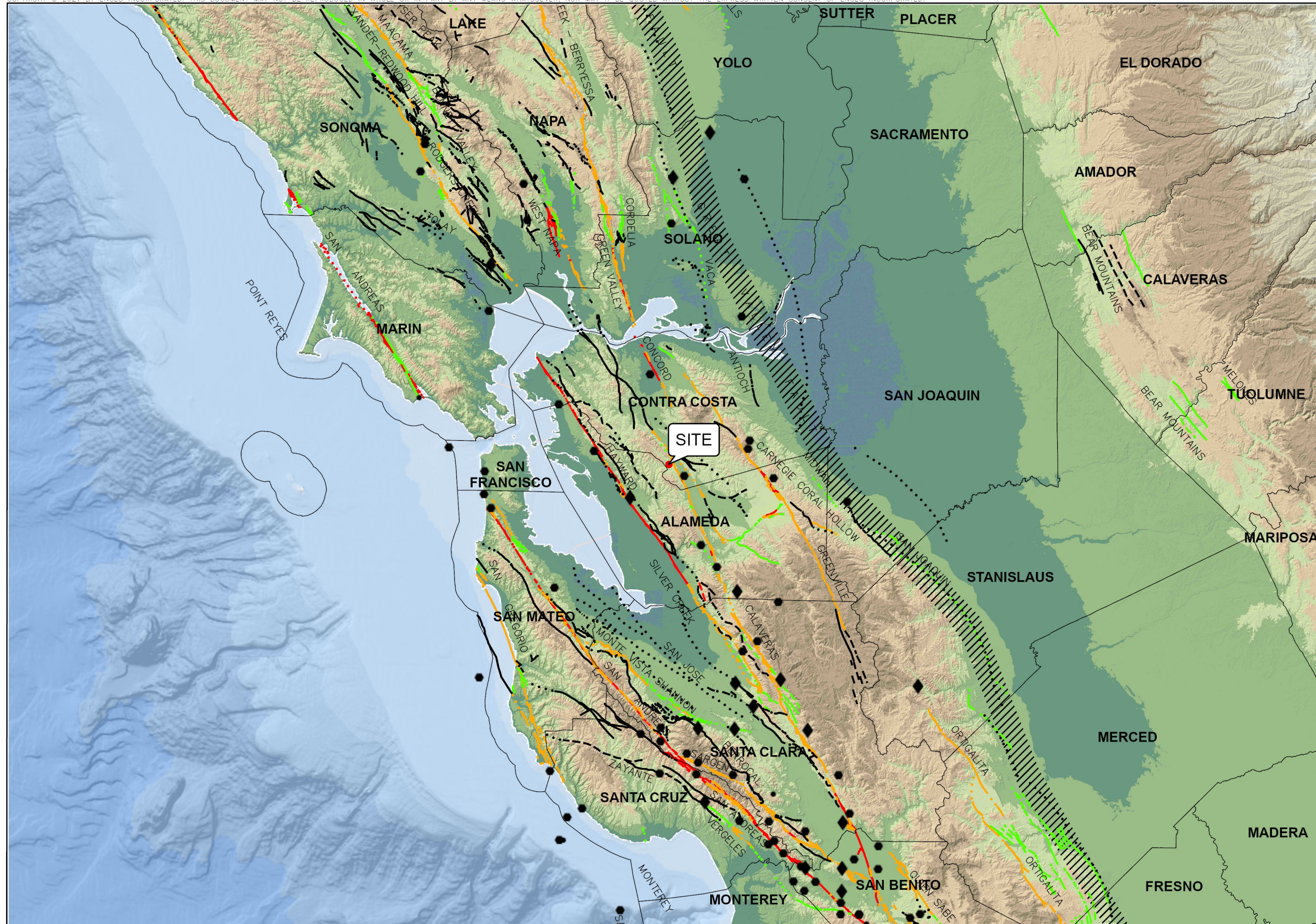
BASEMAP SOURCE: ESRI MAPPING SERVICE  
 REPRODUCED WITH PERMISSION, CALIFORNIA GEOLOGICAL SURVEY,  
 WEBSERVICE OF OFFICIAL MAPS OF SEISMIC HAZARD ZONES (2017)



**SEISMIC HAZARDS ZONE MAP**  
 2481 DEERWOOD DRIVE  
 SAN RAMON, CALIFORNIA

PROJECT NO. : 19202.000.001	<b>4</b>
SCALE: AS SHOWN	
DRAWN BY: QRL CHECKED BY: MT	

FIGURE NO.



**EXPLANATION**

ALL LOCATIONS ARE APPROXIMATE

**EARTHQUAKE**

- ◆ MAGNITUDE 7+
- MAGNITUDE 6-7
- MAGNITUDE 5-6

**QUATERNARY FAULTS**

BASED ON TIME OF MOST RECENT SURFACE DEFORMATION

- HISTORICAL (<150 YEARS), WELL CONSTRAINED LOCATION
- - - HISTORICAL (<150 YEARS), MODERATELY CONSTRAINED LOCATION
- ..... HISTORICAL (<150 YEARS), INFERRED LOCATION
- LATEST QUATERNARY (<15,000 YEARS), WELL CONSTRAINED LOCATION
- - - LATEST QUATERNARY (<15,000 YEARS), MODERATELY CONSTRAINED LOCATION
- ..... LATEST QUATERNARY (<15,000 YEARS), INFERRED LOCATION
- LATE QUATERNARY (<130,000 YEARS), WELL CONSTRAINED LOCATION
- - - LATE QUATERNARY (<130,000 YEARS), MODERATELY CONSTRAINED LOCATION
- ..... LATE QUATERNARY (<130,000 YEARS), INFERRED LOCATION
- UNDIFFERENTIATED QUATERNARY (<1.6 MILLION YEARS), WELL CONSTRAINED LOCATION
- - - UNDIFFERENTIATED QUATERNARY (<1.6 MILLION YEARS), MODERATELY CONSTRAINED LOCATION
- ..... UNDIFFERENTIATED QUATERNARY (<1.6 MILLION YEARS), INFERRED LOCATION
- ////// GREAT VALLEY FAULT ZONE

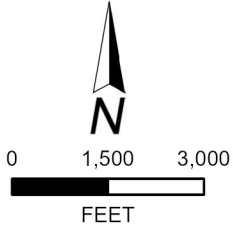
BASE MAP SOURCE  
 ESRI, GEBCO, DELORME, NATURALVUE  
 COLOR HILLSHADE IMAGE BASED ON THE NATIONAL ELEVATION DATA SET (NED) AT 30 METER RESOLUTION  
 U.S.G.S. QUATERNARY FAULT DATABASE, 2020  
 U.S.G.S. HISTORIC EARTHQUAKE DATABASE (1800-PRESENT)  
 U.S.G.S OPEN-FILE REPORT 96-705



**REGIONAL FAULTING AND SEISMICITY**  
 2481 DEERWOOD DRIVE  
 SAN RAMON, CALIFORNIA

PROJECT NO. : 19202.000.001	FIGURE NO.
SCALE: AS SHOWN	<b>5</b>
DRAWN BY: JV	CHECKED BY: MT

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**EXPLANATION**

ALL LOCATIONS ARE APPROXIMATE

- VERY HIGH
- HIGH
- MODERATE
- LOW
- VERY LOW

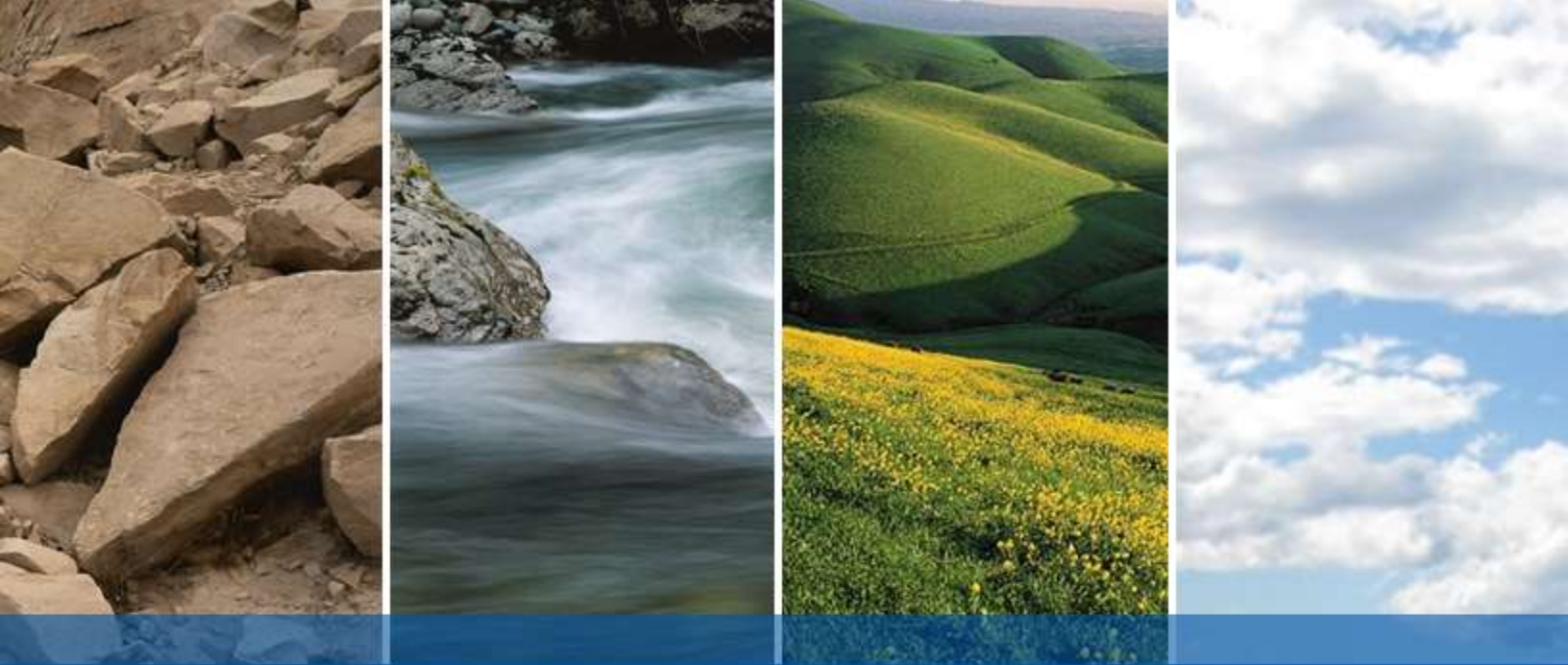
BASEMAP SOURCE: ESRI MAPPING SERVICE AND USGS, WITTER, ET. AL., 2006



**LIQUEFACTION HAZARD MAP**  
 2481 DEERWOOD DRIVE  
 SAN RAMON, CALIFORNIA

PROJECT NO. : 19202.000.001	
SCALE: AS SHOWN	
DRAWN BY: JV	CHECKED BY: MT

FIGURE NO.  
**6**



Project No.  
**19202.000.001**

October 21, 2021

Ms. Heide Antonescu  
Trumark Homes, LLC  
3001 Bishop Drive, Suite 100  
San Ramon, CA 94583

Subject: 2481 Deerwood Drive  
San Ramon, California

## **LIMITED FIELD EXPLORATION AND RETAINING WALL RECOMMENDATIONS**

Reference: ENGEO; Geotechnical Feasibility Report, 2481 Deerwood Drive, San Ramon, California; August 18, 2021; Project No. 19202.000.001.

Dear Ms. Antonescu:

At your request and authorization, we performed limited field exploration at the subject site in San Ramon, California. Based on the field and laboratory test results, we are providing retaining wall recommendations in this letter.

According to the preliminary plan sheet and conceptual wall profile information provided by MacKay & Somps, a retaining wall, up to approximately 15½ feet in exposed height, will be constructed along the rear of the proposed development, and approximately 24 feet south of the existing retaining wall.

## **LIMITED FIELD EXPLORATION AND LABORATORY TESTING**

Our field explorations included drilling three borings (1-B1 through 1-B3) and two hand-auger holes (1-HA1 and 1-HA2) on October 8, 2021. The borings were drilled within the paved parking area behind the existing retaining wall, and the hand-auger holes were advanced at the southwest and southeast corners, south of the development area.

The boring and hand-auger hole locations are approximate and were estimated by pacing from features shown on the Site Plan, Figure 1, and the elevation of each boring is approximated from the contours as shown on the grading plan by DeBolt, and it should be considered accurate only to the degree implied by the method used.

Our field engineer observed the drilling and logged the subsurface conditions at the location. We retained a truck-mounted drill rig and crew to conduct the borings, using 4-inch-diameter solid flight auger method. The borings were drilled to a maximum depth of approximately 11 feet below the existing grade. We permitted and backfilled the borings in accordance with the requirements of Contra Costa County Environmental Health Division.



We retrieved soil samples at various intervals in the borings using 3-inch O.D. split-spoon sampler. The blow counts were obtained by dropping a 140-pound hammer through a 30-inch free fall. The Modified California Sampler was driven 18 inches and the number of blows was recorded for each 6 inches of penetration. Unless otherwise indicated, the blows per foot recorded on the boring logs represent the accumulated number of blows to drive the last 1 foot of penetration; the blow counts have not been converted using any correction factors. When sampler driving was difficult, penetration was recorded only as inches penetrated for 50 hammer blows.

We used the field logs to develop the report boring logs in Appendix A and the report hand-auger hole logs in Appendix B. The logs depict subsurface conditions at the exploration locations for the date of exploration; however, subsurface conditions may vary with time.

### **SUBSURFACE CONDITIONS**

A layer of fill material, approximately 4 to 5 feet thick, was encountered below the pavement in Borings 1-B1 through 1-B3, which were drilled behind the existing retaining wall at the rear of the development. The fill comprised very dark brown, moist, very stiff to hard sandy clay. The native soil found below the fill layer consisted of light yellowish brown, medium dense clayey sand, approximately 2 to 3 feet thick, over bedrock. The bedrock consisted of extremely weak to weak sandstone. The bedrock was encountered at depths ranging from approximately 5½ to 8 feet below the existing ground surface.

The fill was also encountered south of the retaining wall in Hand-auger Holes 1-HA1 and 1-HA2, and was approximately 2 to 2½ feet thick, and native soil was found to be approximately 1½ feet thick.

Groundwater was not found in the borings or hand-auger holes. As required, all test borings were backfilled under the observation of a Contra Costa County Environmental Health Division inspector with approved material. Because of Contra Costa County grouting requirements, some of the boreholes may not have been left open a sufficient amount of time to allow water levels to stabilize.

Fluctuations in the level of groundwater may occur due to variations in rainfall, irrigation practice, and other factors not evident at the time measurements were made.

### **SITE SOIL CONDITIONS**

Based on the grading plan by DeBolt, the proposed wall alignment, and our field exploration data, the majority of the proposed wall will be located on the natural slope of the site except the small eastern portion of wall alignment.

According to the grading plan for the original development by DeBolt, the eastern alignment of the proposed retaining wall will be located within the existing parking lot, which contained existing fill, up to approximately 14 feet thick.

### **RETAINING WALL RECOMMENDATIONS**

Based on the proposed wall layout, the proposed retaining wall will be located on top of the downhill slopes and with level backfill.

Unrestrained drained retaining walls may be designed for active lateral equivalent fluid pressures determined in Table 1. For walls retaining greater than 6 feet of backfill, dynamic increment should be included in the retaining wall design.

**TABLE 1: Retaining Wall Fluid Pressures**

BACKFILL SLOPE CONDITION	ACTIVE PRESSURE (PCF)	DYNAMIC INCREMENT (PCF)
LEVEL	50	20
4:1	55	30
3:1	60	40
2:1	70	55

Appropriate surcharge loading from residential buildings or vehicles should be considered in the wall design when the surcharge load is located within a 1:1 (horizontal:vertical) plane projected from the base of the retaining wall. The wall design should incorporated a uniform horizontal pressure equal to ½ of any surcharge loading. The horizontal surcharge pressure should be applied to the upper 10 feet of the wall height.

### DRILLED PIERS

The proposed retaining wall can be supported on drilled piers. The drilled piers should be at least 12 inches in diameter for piers less than 15 feet deep, and at least 18 inches in diameter for piers greater than 15 feet deep. An allowable skin friction of 500 pounds per square foot (psf) excluding the upper 3 feet of pier from pier load capacity computation can be used in the design. This value may be increased by one-third when considering seismic or wind load. The minimum pier spacing is 3 pier diameters on center.

Due to the downhill condition, the earth active pressures for the wall should extend 5 feet below the exposed wall base of the retaining wall. Passive pressures of 300 pcf acting on two times the pier diameter can be used starting below the increased active pressure depth.

### HELICAL ANCHORS

The proposed retaining wall may be designed using helical nail/anchors support system. As discussed in the previous section, the helical nails will likely be constructed through colluvium/residual soil and very weak bedrock. We expect strong rock conditions to exist laterally, within the zone of nail installation. Helical nails should be designed according to the soil parameters listed below. An alternative design may be prepared according to the bedrock parameters below. Alternative bedrock design may be used if rock conditions can be verified in wall backslope excavation as confirmed by our field representative.

**TABLE 2: Wall Design Parameters**

SOIL MATERIALS	UNIT WEIGHT (PCF)	FRICTION ANGLE (DEG)	COHESION
Soil (Residual Soil and Colluvium)	120	28	-
Bedrock (Sandstone, Claystone, and Siltstone)	130	32	-

A minimum length should be determined to ensure helical nails extend beyond the active wedge of the wall. The active wedge may be determined by extending an imaginary plane from the wall base plus 5 feet below the wall base upward at an angle equal to  $45 + \tan(\phi/2)$ .

Localized areas of strong bedrock should be anticipated during installation, which may make installation difficult or infeasible. Therefore, it may be necessary to predrill helical nails prior to installation. Helical nails must achieve the design embedment length and torque requirements regardless of drilling conditions.

A contractor experienced in the construction of helical nails should perform construction. The successful performance of helical nail wall systems is dependent on proper installation methods. The Geotechnical Engineer should perform full-time monitoring of nail installation and testing. The actual bond between the grout and the nail can vary significantly with the method of installation.

An appropriate testing program should be developed for our approval. The load-testing program should consider alternative soil conditions and methods, such as predrilling, employed during construction.

### MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL

Based on the soil conditions, the proposed retaining wall can also be constructed as mechanically stabilized earth (MSE) retaining wall. The following soil criteria should be incorporated in the MSE wall design:

- The embedment depth of the MSE wall should be 5 feet for a 2:1 downhill slope.
- The site modified peak ground acceleration ( $PGA_M$ ) is 1.094g as listed in Table 4.7-1 of the referenced report. The 2019 California Building Code (CBC) allows to use two-thirds ( $\frac{2}{3}$ ) of the  $PGA_M$  in designs. In accordingly, a pseudo-static coefficient of 0.73g can be used to consider seismic loads for walls greater than 6 feet high.
- On-site soil material can be used for the reinforced backfill.

**TABLE 3: On-Site Soil Material Backfill**

	COHESION (C') (PCF)	FRICTION ANGLE ( $\phi'$ ) (DEGREES)	UNIT WEIGHT ( $\gamma$ ) (PCF)
Reinforced Fill	0	28	125
Retained Soil	0	28	125
Foundation Soil	0	28	125

The minimum safety factors provided below should be incorporated into the design calculations.

**TABLE 4: External Stability**

	SAFETY FACTOR (STATIC/SEISMIC)
Sliding	1.5/1.13
Bearing Capacity	2.0/1.5
Overturning	2.0/1.5

**TABLE 5: Internal Stability**

	<b>SAFETY FACTOR (STATIC/SEISMIC)</b>
Pull-out Resistance	1.5/1.13

## RETAINING WALL DRAINAGE


The retaining walls should be provided with drainage facilities to prevent the buildup of hydrostatic pressures behind the wall. Wall drainage may be provided using a 4-inch-diameter perforated pipe embedded in Caltrans Class 2 permeable material, or free-draining gravel surrounded by synthetic filter fabric. The thickness of the drain blanket should be at least 12 inches. As an alternative, prefabricated synthetic wall drain panels can be used. The drain blanket should extend from the bottom of the wall to about 1 foot below the finished grades at the top of the wall. The upper 1 foot of wall backfill should consist of on-site compacted clayey soil. Drainage should be collected by a perforated pipe and directed to an outlet approved by the Civil Engineer.

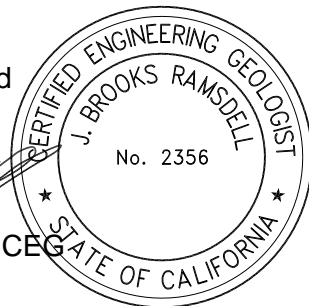
All wall backfill should be compacted to a relative compaction of at least 90 percent and at least 4 percentage points above optimum. Light equipment should be used during backfill compaction to reduce possible overstressing of the walls.


If you have any questions regarding the contents of this letter, please do not hesitate to contact us.

Sincerely,

ENGEO Incorporated

  
J. Brooks Ramsdell, CEG



  
Macy Tong, GE



jbr/mt/dt

Attachments: Figure 1 – Site Plan  
Appendix A – Boring Logs  
Appendix B – Hand-Auger Hole Logs

**FIGURES**

**Figure 1 – Site Plan**

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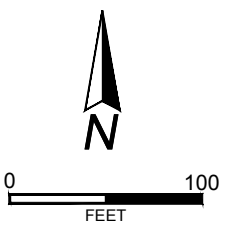


**EXPLANATION**

ALL LOCATIONS ARE APPROXIMATE

- 1-B3** ● BORING LOCATION (ENGEO, 2021)
- 1-HA2** ○ HAND AUGER LOCATION (ENGEO, 2021)

- Qaf** ARTIFICIAL FILL
- Qc** COLLUVIUM
- Tcug** GARRITY MEMBER OF CONTRA COSTA GROUP



BASE MAP SOURCE: BING MAPPING SERVICE



**SITE PLAN**  
 2481 DEERWOOD DRIVE  
 SAN RAMON, CALIFORNIA

PROJECT NO.: 19202.000.001	<b>1</b>
SCALE: AS SHOWN	
DRAWN BY: CC	CHECKED BY: MT

FIGURE NO.  
**1**

ORIGINAL FIGURE PRINTED IN COLOR

**APPENDIX A**

**Boring Logs**

# KEY TO BORING LOGS

MAJOR TYPES		DESCRIPTION	
COARSE-GRAINED SOILS MORE THAN HALF OF MAT'L LARGER THAN #200 SIEVE	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE	CLEAN GRAVELS WITH LESS THAN 5% FINES	GW - Well graded gravels or gravel-sand mixtures GP - Poorly graded gravels or gravel-sand mixtures
		GRAVELS WITH OVER 12 % FINES	GM - Silty gravels, gravel-sand and silt mixtures GC - Clayey gravels, gravel-sand and clay mixtures
	SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE	CLEAN SANDS WITH LESS THAN 5% FINES	SW - Well graded sands, or gravelly sand mixtures SP - Poorly graded sands or gravelly sand mixtures
		SANDS WITH OVER 12 % FINES	SM - Silty sand, sand-silt mixtures SC - Clayey sand, sand-clay mixtures
FINE-GRAINED SOILS MORE THAN HALF OF MAT'L SMALLER THAN #200 SIEVE	SILTS AND CLAYS LIQUID LIMIT 50 % OR LESS		ML - Inorganic silt with low to medium plasticity CL - Inorganic clay with low to medium plasticity OL - Low plasticity organic silts and clays
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50 %		MH - Elastic silt with high plasticity CH - Fat clay with high plasticity OH - Highly plastic organic silts and clays
	HIGHLY ORGANIC SOILS		PT - Peat and other highly organic soils

For fine-grained soils with 15 to 29% retained on the #200 sieve, the words "with sand" or "with gravel" (whichever is predominant) are added to the group name.

For fine-grained soil with >30% retained on the #200 sieve, the words "sandy" or "gravelly" (whichever is predominant) are added to the group name.

## GRAIN SIZES

U.S. STANDARD SERIES SIEVE SIZE				CLEAR SQUARE SIEVE OPENINGS				
	200	40	10	4	3/4 "	3"	12"	
SILTS AND CLAYS	SAND			GRAVEL			COBBLES	BOULDERS
	FINE	MEDIUM	COARSE	FINE	COARSE			

### RELATIVE DENSITY

<u>SANDS AND GRAVELS</u>	BLOWS/FOOT (S.P.T.)
VERY LOOSE	0-4
LOOSE	4-10
MEDIUM DENSE	10-30
DENSE	30-50
VERY DENSE	OVER 50

### CONSISTENCY

<u>SILTS AND CLAYS</u>	<u>STRENGTH*</u>
VERY SOFT	0-1/4
SOFT	1/4-1/2
MEDIUM STIFF	1/2-1
STIFF	1-2
VERY STIFF	2-4
HARD	OVER 4

### MOISTURE CONDITION

DRY	Dusty, dry to touch
MOIST	Damp but no visible water
WET	Visible freewater

### LINE TYPES

—————	Solid - Layer Break
-----	Dashed - Gradational or approximate layer break

### GROUNDWATER SYMBOLS

	Groundwater level during drilling
	Stabilized groundwater level

### SAMPLER SYMBOLS

	Modified California (3" O.D.) sampler
	California (2.5" O.D.) sampler
	S.P.T. - Split spoon sampler
	Shelby Tube
	Dames and Moore Piston
	Continuous Core
	Bag Samples
	Grab Samples
NR	No Recovery

(S.P.T.) Number of blows of 140 lb. hammer falling 30" to drive a 2-inch O.D. (1-3/8 inch I.D.) sampler

\* Unconfined compressive strength in tons/sq. ft., asterisk on log means determined by pocket penetrometer







# LOG OF BORING 1-B1

LATITUDE: 37.77375

LONGITUDE: -121.9943

Geotechnical Exploration  
2481 Deerwood Drive  
San Ramon, CA  
19202.000.001

DATE DRILLED: 10/8/2021  
HOLE DEPTH: Approx. 11 ft.  
HOLE DIAMETER: 4.0 in.  
SURF ELEV (NGVD 29): Approx. 628 ft.

LOGGED / REVIEWED BY: J. Hoeflich / JBR  
DRILLING CONTRACTOR: West Coast Exploration  
DRILLING METHOD: Solid Flight Auger  
HAMMER TYPE: 140 lb. Rope and Cathead

Depth in Feet	Elevation in Feet	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits			Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Unconfined Strength (tsf) *field approx
							Liquid Limit	Plastic Limit	Plasticity Index				
			ASPHALT 4 inches										
			AGGREGATE BASE (AB), 10 inches										
	625		SANDY LEAN CLAY WITH GRAVEL (CL), very dark brown mottled with light brown, hard, moist, low plasticity, fine- to coarse-grained sand, fine to medium gravel [FILL]			34							
	5		CLAYEY SAND (SC), light yellowish brown, medium dense, moist [RESIDUAL SOIL]										
	620		SANDSTONE, light yellowish brown, extremely weak (R0), highly weathered (WH), fine-grained, poorly cemented [BEDROCK]			42							
	10		Weak (R2), moderately weathered (WM), iron oxide staining, manganese oxide veins			53/6"							
			Becomes less weathered, stronger cementation			60/6"							
			Boring terminated at 11 feet below ground surface. Groundwater not encountered.										

LOG - GEOTECHNICAL WIELEV - BORING LOG\_1-B02.GPJ ENGEO INC.GDT 10/21/21



# LOG OF BORING 1-B2

LATITUDE: 37.77375

LONGITUDE: -121.99407

Geotechnical Exploration  
2481 Deerwood Drive  
San Ramon, CA  
19202.000.001

DATE DRILLED: 10/8/2021  
HOLE DEPTH: Approx. 8½ ft.  
HOLE DIAMETER: 4.0 in.  
SURF ELEV (NGVD 29): Approx. 628 ft.

LOGGED / REVIEWED BY: J. Hoeflich / JBR  
DRILLING CONTRACTOR: West Coast Exploration  
DRILLING METHOD: Solid Flight Auger  
HAMMER TYPE: 140 lb. Rope and Cathead

Depth in Feet	Elevation in Feet	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits			Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Unconfined Strength (tsf) *field approx
							Liquid Limit	Plastic Limit	Plasticity Index				
			ASPHALT 3.5 inches										
			AGGREGATE BASE (AB), 8 inches										
625			SANDY LEAN CLAY (CL), very dark brown mottled with light brown, hard, moist, fine- to coarse-grained sand, fine to medium gravel, 15-20% gravel [FILL]			92							>4.5*
5			SANDY CLAY/CLAYEY SAND (SC), yellowish brown, very stiff, moist [RESIDUAL SOIL]										
620			SANDSTONE, light yellowish brown, extremely weak (R0) to weak (R2), moderately weathered (WM), fine-grained [BEDROCK]			85							
			Boring terminated at 8 1/2 feet below ground surface. Groundwater not encountered.										



# LOG OF BORING 1-B3

LATITUDE: 37.77375

LONGITUDE: -121.99418

Geotechnical Exploration  
2481 Deerwood Drive  
San Ramon, CA  
19202.000.001

DATE DRILLED: 10/8/2021  
HOLE DEPTH: Approx. 7 ft.  
HOLE DIAMETER: 4.0 in.  
SURF ELEV (NGVD 29): Approx. 628 ft.

LOGGED / REVIEWED BY: J. Hoeflich / JBR  
DRILLING CONTRACTOR: West Coast Exploration  
DRILLING METHOD: Solid Flight Auger  
HAMMER TYPE: 140 lb. Rope and Cathead

Depth in Feet	Elevation in Feet	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits			Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Unconfined Strength (tsf) *field approx
							Liquid Limit	Plastic Limit	Plasticity Index				
			ASPHALT 4 inches										
			AGGREGATE BASE (AB), 7 inches										
	625		SANDY LEAN CLAY (CL), very dark brown mottled with light brown, hard, moist, low plasticity, fine- to coarse-grained sand, fine to medium gravel [FILL]			36							
	5		CLAYEY SAND (SC), yellowish brown, medium dense, moist [RESIDUAL SOIL]			59							
			SANDSTONE, light yellowish brown, weak (R2), moderately weathered (WM), fine-grained [BEDROCK]			55/6"							
			Boring terminated at 7 feet below ground surface. Groundwater not encountered.										

**APPENDIX B**  
**Hand-Auger Hole Logs**

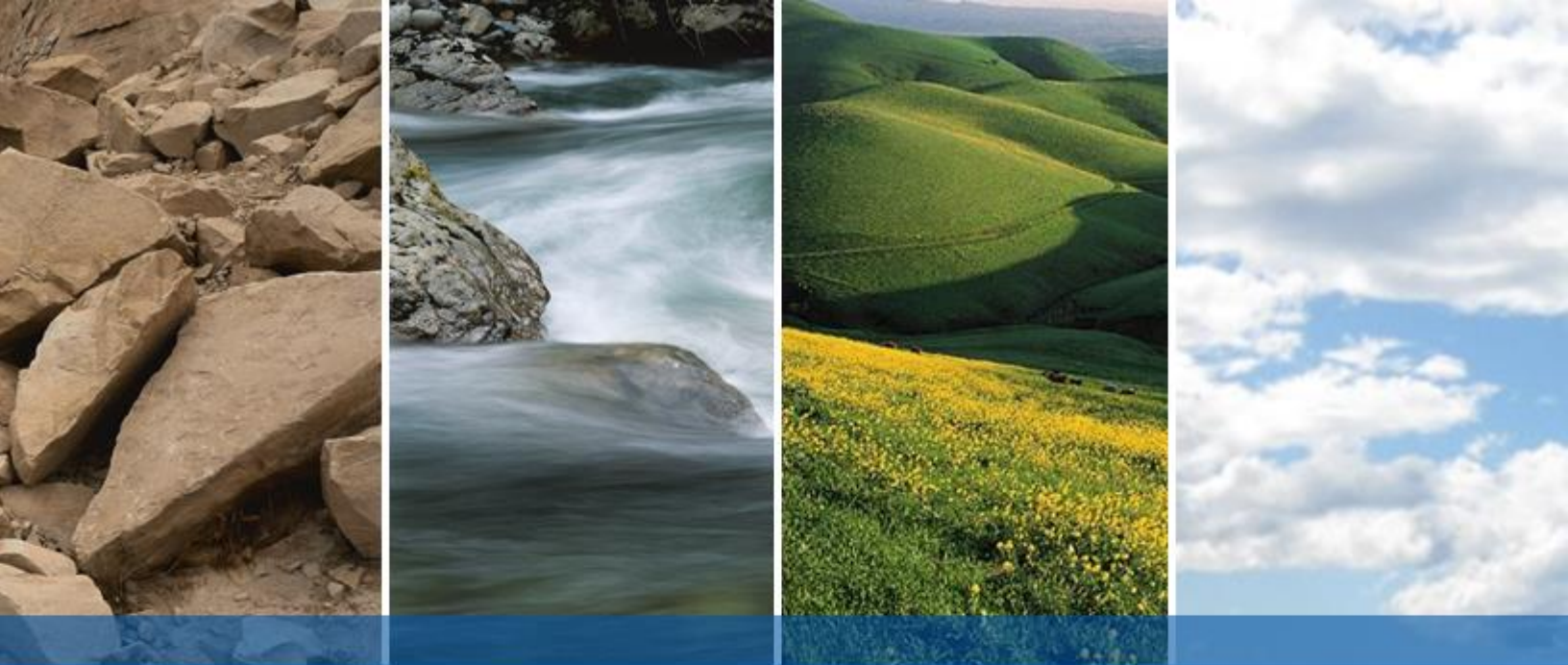


## HAND-AUGER HOLE LOG

2481 Deerwood Drive  
San Ramon, California  
19202.000.001

Logged By: J. Hoeflich  
Logged Date: October 8, 2021

Hand-Auger Hole Number	Depth (Feet)	Description
1-HA1	0 – 2	SILTY SAND with gravel (SM), light yellowish brown, moist, loose, approximately 10 to 20% of gravel, fine- to medium-grained gravel, fine sand (Fill)
	2 – 3.5	SANDY LEAN CLAY with gravel (CL), very dark brown mottled with light brown, hard, moist, fine to medium gravel (Residual Soil)
	3.5	SANDSTONE, light yellowish brown, fine grained, weathered, weak (Bedrock)
1-HA2	0 – 2.5	SANDY LEAN CLAY with gravel (CL), very dark brown, moist, fine- to medium-grained gravel (Fill)
	2.5	Met Refusal



**2481 DEERWOOD DRIVE**  
SAN RAMON, CALIFORNIA

## **PHASE I ENVIRONMENTAL SITE ASSESSMENT**

**SUBMITTED TO**  
Ms. Heide Antonescu  
Trumark Homes, LLC  
3001 Bishop Drive, Suite 100  
San Ramon, CA 94583

**PREPARED BY**  
ENGEO Incorporated

August 30, 2021

**PROJECT NO.**  
19202.000.001

Project No.  
**19202.000.001**

August 30, 2021

Ms. Heide Antonescu  
Trumark Homes, LLC  
3001 Bishop Drive, Suite 100  
San Ramon, CA 94583

Subject: 2481 Deerwood Drive  
San Ramon, California

## PHASE I ENVIRONMENTAL SITE ASSESSMENT

Dear Ms. Antonescu:

ENGEO is pleased to present our phase I environmental site assessment of the subject property (Property), located in San Ramon, California. The attached report includes a description of the site assessment activities, along with ENGEO's findings, opinions, and conclusions regarding the Property.

ENGEO has the specific qualifications based on education, training, and experience to assess the nature, history, and setting of the Property, and has developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312 and the American Standard Testing Method (ASTM) Practice E1527-13. We declare that, to the best of our professional knowledge and belief, the responsible charge for this study meets the definition of Environmental Professional as defined in Section 312.10 of 40 CFR Part 312 and ASTM E1527-13.

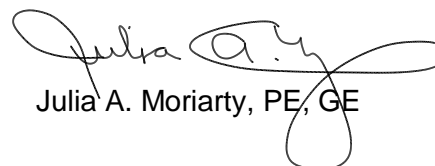
We are pleased to be of service to you on this project. If you have any questions concerning the contents of our report, please contact us.

Sincerely,

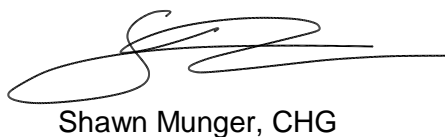
ENGEO Incorporated



Stephen Fallon



Julia A. Moriarty, PE, GE



Shawn Munger, CHG

sf/jam/sm/jf

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**APPENDIX E** – Environmental Data Resources, Inc., Sanborn Map Report

**APPENDIX F** – Environmental Data Resources, Inc., City Directory

**APPENDIX G** – Environmental Site Assessment Questionnaires (2)

**APPENDIX H** – Qualifications of Environmental Professional

## EXECUTIVE SUMMARY

ENGEO conducted a phase I environmental site assessment for the property located at 2481 Deerwood Drive in San Ramon, California (Property). The Property is approximately 4.43 acres in area and is identified by Assessor's Parcel Number (APN) 208-640-003. The Property includes 50,834 square feet of commercial office space in one building built in 1986 and 1987. There are cooling towers, 150,000 square feet of raised flooring with multiple computer room air conditioning (CRAC) units, a pre-action fire suppression, and Fike Fire Control system. The facility also has a 1,500 kilowatt (kW) diesel generator with a 2,500-gallon fuel tank and a 500 kilovolt-ampere (kVA) Eaton uninterruptible power supply.

The Property consists of one 2-story commercial building and the associated parking lot. Review of historical records indicates that the Property had remained undeveloped land since 1896 and up until approximately 1993. The available aerial images from 1993 shows the development of the existing structure and parking lot.

This assessment included a review of local, state, tribal, and federal environmental record sources, standard historical sources, aerial photographs, fire insurance maps and physical setting sources. A reconnaissance of the Property was conducted to review site use and current conditions to check for the storage, use, production or disposal of hazardous or potentially hazardous materials and interviews with persons knowledgeable about current and past site use.

The site reconnaissance and records review did not find documentation or physical evidence of soil or groundwater impairments associated with the use or past use of the Property. A review of regulatory databases maintained by county, state, tribal, and federal agencies found no documentation of hazardous materials violations or discharge on the Property and did not identify contaminated facilities within the appropriate American Society for Testing and Materials (ASTM) search distances that would reasonably be expected to impact the Property.

Based on the findings of this assessment, no Recognized Environmental Conditions (RECs), no historical RECs, and no controlled RECs were identified for the Property.

Based on the review of regulatory databases and site reconnaissance, we present information on features of potential environmental concern that were either contained in the databases or observed on the Property. These features were not considered to be RECs. We briefly discuss each feature below.

- Due to the age of the building, a lead based paint and asbestos survey should be carried out.
- Dispose of on-site batteries at an authorized facility.
- Dispose of on-site electronics at an authorized facility.
- Work with PG&E to remove the on-site transformer.
- Work with the County and Fire Departments to remove the on-site generator and 2,500-gallon diesel belly tank.

It is our opinion that the findings of this study are based on a sufficient level of information obtained during our contracted scope of services to render a conclusion as to whether additional appropriate investigation is required to identify the presence or likely presence of a REC.

This assessment has revealed no evidence of RECs in connection with the Property, and we believe the Property is suitable for the proposed residential development. ENGEO recommends no further environmental studies at this time. We recommend completion of the surveys and disposal of materials mentioned above.

ENGEO has performed a phase I environmental site assessment in general conformance with the scope and limitations of ASTM E1527-13 and the standards and practices of the All Appropriate Inquiry – Final Rule (40 Code of Federal Regulations Part 312).

## 1.0 INTRODUCTION

### 1.1 PURPOSE OF PHASE I ENVIRONMENTAL SITE ASSESSMENT

This assessment was performed at the request of Trumark Homes, LLC for the purpose of environmental due diligence during property acquisition. The objective of this phase I environmental site assessment is to identify Recognized Environmental Conditions (RECs) associated with the Property. As defined in the ASTM Standard Practice E1527-13, an REC is “the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.”

### 1.2 DETAILED SCOPE OF SERVICES

The scope of services performed included the following.

- A review of publicly available and practicably reviewable standard local, state, tribal, and federal environmental record sources.
- A review of publicly available and practicably reviewable standard historical sources, aerial photographs, fire insurance maps, and physical setting sources.
- A reconnaissance of the Property to review site use and current conditions. The reconnaissance was conducted to check for the storage, use, production or disposal of hazardous or potentially hazardous materials.
- Interviews with owners/occupants and public sector officials.
- Preparation of this report with our findings, opinions, and conclusions.

### 1.3 SITE LOCATION AND DESCRIPTION

ENGEO conducted a phase I environmental site assessment for the Property located at 2481 Deerwood Drive in San Ramon, California (Figures 1 and 2). The approximately 4.43-acre Property is identified as APN 208-640-003 (Figure 3) and is currently occupied by a commercial building and associated parking. The southern portion of the Property is an undeveloped vegetated slope.

### 1.4 CURRENT USE OF PROPERTY AND ADJOINING PROPERTIES

Currently, the property is occupied by a two-story office building with landscaping areas surrounding the building. Site parking and access drives are located along the perimeter of the developed area. The existing building is located on a relatively level area at the northern portion of the property and the southern portion of the site consists of downsloping ground with scattered mature trees towards San Ramon Creek near Crow Canyon Road. A retaining wall was observed along the southeast corner of the parking lot. A deck was located south of the existing building.

The Property includes 50,834 square feet of commercial office space in one building built in 1986 and 1987. There are cooling towers, 150,000 square feet of raised flooring with multiple computer

room air conditioning (CRAC) units, a pre-action fire suppression, and Fike Fire Control system. The facility also has a 1,500 kilowatt (kW) diesel generator with a 2,500-gallon fuel tank and a 500 kilovolt-ampere (kVA) Eaton un-interruptible power supply.

The surrounding areas to the north, west, and east are made up of residential neighborhoods and residential apartment communities. The area to the south is vegetated and sloped down to San Ramon Creek along Crow Canyon Road.

## 1.5 SITE AND VICINITY CHARACTERISTICS

Existing elevations at the relatively level developed portion of the site range from approximately 640 feet at the northwest corner of the property to 630 feet at the southern perimeter of the paved access road located south of the existing building. Existing elevations at the undeveloped portion of the site range from approximately 630 feet near the southern perimeter of the paved area to approximately 550 feet along San Ramon Creek.

The site is located within the Coast Range Geomorphic Province. The Coast Range province includes many separate ranges, coalescing mountain masses, and several major structural valleys. These mountain ranges and basement rock are largely made up of marine sedimentary rocks that have been highly faulted, folded, and altered by orogenic processes. The valleys and margins of the range are generally filled with Quaternary age alluvial deposits that consist of gravel, sand, silt, and clay.

Dibblee (2005) mapped the site as underlain by Pliocene non-marine sedimentary rock (Tor). This rock unit is predominantly weakly indurated mudstone, siltstone, sandstone and pebble conglomerate and is commonly referred to as the Orinda Formation. Few thin tuff beds also are present in this formation. Quaternary alluvium (Qa) was mapped along the San Ramon Creek near Crow Canyon Road and consists of gravel, sand, and clay of valley areas.

Geocheck – Physical Setting Source Summary of the Environmental Data Resources, Inc. (EDR) report (Appendix A) indicated no Federal United States Geological Survey (USGS) and 18 State wells located within 1 mile of the Property. The wells identified did not have groundwater depth information. The Physical Setting Source Summary did not provide hydrogeologic information for use as an indicator of groundwater flow direction in the immediate area.

We reviewed the Department of Water Resources On-line Water Data Library for depth to water in the vicinity of the Property. The website did not identify any wells within 1 mile of the Property.

We reviewed EnviroStor, a website maintained by the State of California Department of Toxic Substances Control, and GeoTracker, a website maintained by the State of California Water Resources Control Board, for nearby facilities with records that include depth to groundwater measurements. The following information was obtained regarding local groundwater conditions.

**TABLE 1.5-1: Local Groundwater Conditions**

PROXIMITY TO PROPERTY	REPORTED DEPTH TO GROUNDWATER	REPORTED GROUNDWATER FLOW DIRECTION
0.80 mi East	20.5 feet	n/a
0.92 mi East	13-16 feet	NE
0.93 mi East	11-15 feet	NE

The presence of the San Ramon Creek may impact the localized groundwater flow direction. The site-specific depth to groundwater and direction of groundwater flow was not determined as part of this assessment. Fluctuations in groundwater levels may occur seasonally and over a period of years due to variations in precipitation, temperature, irrigation and other factors.

We reviewed the Department of Conservation, Geologic Energy Management (CalGEM), formerly the Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR), website and map database to determine if any historic oil and/or gas wells were located within the Property. No wells were mapped within 1 mile of the Property.

## **2.0 PREVIOUS ENVIRONMENTAL REPORTS**

No previous reports were identified.

## **3.0 RECORDS REVIEW**

### **3.1 PROPERTY RECORDS**

#### **3.1.1 Title Report/Ownership**

The Title Report lists recorded land title detail, ownership fees, leases, land contracts, easements, liens, deficiencies, and other encumbrances attached to or recorded against a subject property. Laws and regulations pertaining to land trusts vary from state to state and the detail of information presented in a Title Report can vary greatly by jurisdiction. As a result, ENGEO utilizes a Title Report, when provided to us, as a supplement to other historical record sources.

A Preliminary Title Report for the Property, prepared by First American Title Company and dated July 28, 2021, was provided for our review. The Property title is vested in SIEVA PROPERTY LLC, A CALIFORNIA LIMITED LIABILITY COMPANY. No references to environmental liens, deed restrictions or other potential environmental issues were noted. This report is included in Appendix B.

#### **3.1.2 Environmental Liens and Activity Use Limitations**

No environmental liens or activity use limitation were identified.

## **3.2 HISTORICAL RECORD SOURCES**

The purpose of the historical record review is to develop a history of the previous uses or occupancies of the Property and surrounding area in order to identify those uses or occupancies that are likely to have led to RECs on the Property.

### **3.2.1 Historical Topographic Maps/Aerial Photographs/Sanborn Maps**

Historical USGS topographic maps, aerial photographs, and Sanborn Fire insurance maps were reviewed to determine if discernible changes pertaining to the Property had been recorded. EDR provided the following maps and photographs, presented in Appendices C, D, and E.

**TABLE 3.2.1-1: Historical Review Summary**

HISTORICAL MAP/PHOTOGRAPH	YEARS
Topographic Maps	1896, 1898, 1899, 1912, 1915, 1941, 1943, 1947, 1949, 1950, 1953, 1959, 1961, 1968, 1973, 1980, 1996, 1999, 2012
Aerial Photographs	1939, 1946, 1949, 1950, 1958, 1963, 1966, 1979, 1982, 1993, 1998, 2006, 2009, 2012, 2016
Sanborn Maps	N/A (unmapped property)

According to topographic and aerial maps, the Property remained undeveloped from 1896 until approximately 1993. The surrounding area to the south and southeast was utilized as orchards from 1896 until approximately 1966. By 1979, the orchards were being decommissioned and replaced with commercial and residential development. The surrounding area to the north, east, and west remained largely undeveloped land with sparsely distributed residential properties. Starting in 1982, these areas began to be developed as mostly residential neighborhoods with some commercial office properties. The existing commercial office building and associated parking lot still exist today on the lot.

### 3.2.2 City Directory

City Directories, published since the 18th century for major towns and cities, list the name of the resident or business associated with each address. A city directory search conducted by EDR is located in Appendix F.

**TABLE 3.2.2-1: City Directory**

YEAR	LISTINGS
2005, 2010, 2014, 2017	SUNGARD SUNGARD RECOVERY SERVICES LP SUN GARD AVAILABILITY SVC
2000, 2005	COMDISCO INC SUNGARD RECOVERY COMDISCO INCORPORATED
1995	GRAZIADEI, MIKE E
1992	COMDISCO DISASTER

## 3.3 ENVIRONMENTAL RECORD SOURCES

EDR performed a search of federal, tribal, state, and local databases regarding the Property and nearby properties. Details regarding the databases searched by EDR are provided in Appendix A. A list of the facilities documented by EDR within the approximate minimum search distance of the Property is provided below.

### 3.3.1 Environmental Records

#### 3.3.1.1 Subject Property

The Property is listed on the following Environmental Record source databases.

**TABLE 3.3.1.1-1**

FACILITY	STREET	DATABASES
SUNGARD AVAILABILITY SERVICES	2481 DEERWOOD DR	FINDS, ECHO, AST, CONTRA COSTA CO. SITE LIST, CERS, CERS TANKS, HWTS, RCRA NonGen / NLR, EMI

The Property is listed on the databased shown in Table 3.3.1.1-1 under the facility name Sungard Availability Services. Sungard Availability Services is a provider of IT production and recovery services. They provide cloud storage, backup servers, and other IT services. The Property is listed on hazardous waste tracking databases, including FINDS, ECHO, CONTRA COSTA CO. SITE LIST, CERS, HWTS, and RCRA NonGen / NLR. These data bases relate to hazardous materials storage, and are likely active due to on-site fuel storage pertaining to backup power systems utilized at the Property.

The AST and CERS TANKS listing are likely related to the presence of the above ground storage tank and backup generator systems. The EMI database finding relates to potential sources of emissions into the atmosphere.

Based on the nature of the databases listed, the lack of open cases, and the observations made during the site reconnaissance, these database entries and the remaining on-site equipment are not likely to pose an environmental threat to the Property. Disposal and off-site disposal of batteries, power systems, electronics, generator, and cooling systems needs to be completed in accordance with local, State, and federal regulations.

**3.3.1.2 Other Properties**

The following databases include facilities listed within the appropriate ASTM search distances of the Property on Environmental Records sources.

**TABLE 3.3.1.2-1**

FACILITY	STREET	DATABASES
INDEPENDENT HOLDINGS LLC, PARK PLACE MEDICAL BUILDING LLC	100 PARK PLACE	EMI, CONTRA COSTA CO. SITE LIST, CERS
SAN RAMON VALLEY FIRE STA #38	1600 BOLLINGER CANYON RD	UST, DRYCLEANERS, AST, EMI, CONTRA COSTA CO. SITE LIST, CERS, CERS TANKS
MAST RANCH	18895 BOLLINGER CANYON RD	HIST UST, CONTRA COSTA CO. SITE LIST, SWEEPS UST, SWEEPS UST
JOHN MUIR PHYSICIAN NETWORK - FP/IMPEDS	200 PORTER DR 300	CONTRA COSTA CO. SITE LIST, CERS, CERS HAZ WASTE, RCRA NonGen / NLR
VERIZON WIRELESS CROW CANYON BOLLINGER	2001 CROW CANYON RD	CONTRA COSTA CO. SITE LIST, CERS
JOHN MUIR MEDICAL CENTER	205 PORTER DR	CONTRA COSTA CO. SITE LIST, UST, SWEEPS UST
SAN RAMON VALLEY FIRE STA 38	2323 CROW CANYON RD	SWEEPS UST, SWEEPS UST
CITY OF SAN RAMON PERMIT CENTER & POLICE DEPARTMENT	2401 CROW CANYON RD	EMI, CONTRA COSTA CO. SITE LIST, HAZNET, HWTS
DON WINSLOW	2504 FOUNTAINHEAD DR	RCRA NonGen / NLR



Based on the distances to the identified database sites (Table 3.3.1.2-1), regional topographic gradient, and the EDR findings, it is unlikely that the above-stated database sites pose an environmental risk to the Property.

There are four closed leaking underground storage tank (LUST) cases apparently within the 1-mile radius from the Property. These sites may not appear on the radius report findings because they are almost 1 mile away from the Property. These sites include Exxon, Former BP Service Station #11148, Modern Alloys, and Morgan’s Masonry Supply. Based on our review of the available data, these sites are unlikely to pose an environmental risk to the Property.

The Shell Service Station #136049 is listed as an open LUST site. There are limited records uploaded to the GeoTracker website, but a Phase II ESA did identify methyl tert-butyl ether (MtBE) in groundwater and tertiary butyl alcohol (TBA) in soil. MtBE was detected in two grab groundwater samples (SB-01 and SB-02) at concentrations of 24 and 8.4 micrograms per liter (µg/L), respectively. TBA was detected in one soil sample (SB-03) at a concentration of 0.14 milligrams per kilogram (mg/kg). Both MtBE and TBA concentrations were above their respective Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) of 5µg/L and 0.075 mg/kg, respectively. The distance from the Property to the site and the apparently limited nature of the impacts make the site unlikely to pose an environmental risk to the Property.

The San Ramon Valley Fire Station #38 located at 1600 Bollinger Canyon Road was listed as a drycleaner, however, an interview conducted of the staff at the station showed that there has not been a drycleaner there since the building was constructed. The Fire Department built the building, and they use a contractor to launder their uniforms. No records of leaks from storage tanks were identified from this site either.

No properties were identified on the “Orphan Summary” list.

### 3.4 REGULATORY AGENCY FILES AND RECORDS

The following agencies were contacted pertaining to possible past development and/or activity at the Property.

**TABLE 3.4-1: Regulatory Agency Records**

NAME OF AGENCY	RECORDS REVIEWED
City of San Ramon (City Clerk)	<p>The City Clerk forwarded our City records request to the appropriate agencies. The following records were provided and reviewed.</p> <p>A Hazardous Materials Declaration for Comdisco Disaster Recovery Services, Inc. was reviewed from April 12, 1990. A Hazardous Materials Questionnaire was reviewed from 1999. Neither of these documents identified the types of materials on the Property. The declaration stated that there were hazardous materials present, but the questionnaire did not.</p> <p>The City also provided building permits and various plans and as-built drawings for the building.</p>

NAME OF AGENCY	RECORDS REVIEWED
San Ramon Valley Fire Protection District	The SRVFPD was able to confirm that the DRYCLEANER reference in the EDR report was inaccurate. They use a contractor to clean their uniforms. They provided an Operational Permit Report for the generator fuel tank at the Property (financial record of permit payment).
	Hazardous materials inventories, permits to operate, business plans, and site inspection reports were provided by the CCCDEH. We reviewed these documents. The inventory identified approximately 11,808 pounds of lead batteries (120 individual batteries), 1,152 pounds of sulfuric acid (inside the batteries), and approximately 2,400 gallons of diesel fuel. Site inspection forms from 2011 stated that a Spill Prevention, Control, and Countermeasures (SPCC) Plan was developed for the Property but it was not implemented. The SPCC plan is listed as being dated August 18, 2008, but this document was not available for review.
Contra Costa County Department of Environmental Health – Hazardous Materials Programs	<p>An inspection from 2015 noted that the SPCC Plan had not been reviewed in the appropriate timeframe. This inspection also found that the fuel tank in the generator had not been integrity tested every 5 years, per the protocols in the SPCC Plan.</p> <p>An inspection from 2016 identified a new PE-signed SPCC Plan dated February 1, 2016 was stored onsite. The new plan identified a more robust tank integrity testing regime.</p> <p>An integrity test report was completed on April 12, 2016. The report did not identify any leaks, but it did mention that the emergency venting apparatus was found to have insufficient relief capacity. The report recommended various maintenance work on the generator that could prolong its operational life.</p>
Contra Costa County Assessor’s Office	The assessor website was used to verify the size of the Property and the associated APNs.
California State Water Resources Control Board	We reviewed the available resources on the GeoTracker website. Our findings have been included in this report in various sections.
Department of Toxic Substances Control	We reviewed the available resources on the EnviroStor website. Our findings have been included in this report in various sections.

### 3.5 INDOOR AIR QUALITY

An evaluation of indoor air quality, mold, or radon was not included as part of the contracted scope of services. The California Department of Public Health has conducted studies of radon risks throughout the state, sorted by zip code. Results of the studies indicate that 41 tests were conducted within the Property zip code, with three tests exceeding the current EPA action level of 4 picocuries per liter {pCi/L}<sup>1</sup>).

<sup>1</sup> California Department of Public Health – Radon Program–  
(<https://www.cdph.ca.gov/Programs/CEH/DRSEM/CDPH%20Document%20Library/EMB/Radon/Radon%20Test%20Results.pdf>).

In accordance with ASTM E2600-15 (Tier 1) (*Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*); there are potential petroleum hydrocarbon sources for vapor intrusion within 1/10 mile of the Property or volatile organic compound (VOCs) sources within 1/3 mile of the Property.

The generator located at the rear of the building is a potential source, however, there is no records of a spill having occurred, and the system appeared to be in working order during the site reconnaissance (no leaks or staining were observed).

All of the LUST cases identified within the 1-mile search radius were more than ¾ mile away.

## 4.0 SITE RECONNAISSANCE

### 4.1 METHODOLOGY

ENGEO conducted a reconnaissance of the Property on August 12, 2021. The reconnaissance was performed by Stephen Fallon, a Project Engineer of ENGEO. The Property was viewed for hazardous materials storage, superficial staining or discoloration, debris, stressed vegetation, or other conditions that may be indicative of potential sources of soil or groundwater contamination. The Property was also checked for evidence of fill/ventilation pipes, ground subsidence, or other evidence of existing or preexisting underground storage tanks. Photographs taken during the site reconnaissance are presented in Figures 4A through 4G.

### 4.2 EXTERIOR OBSERVATIONS

The following table summarizes our observations during the reconnaissance:

**TABLE 4.2-1: Exterior Site Observations**

FEATURE TYPE	OBSERVATIONS
Structures	One large commercial office structure was observed during the site reconnaissance. The interior and exterior of the building were observed.
Hazardous Substances and Petroleum Products in Connection with Identified Uses	No hazardous substances or petroleum products were observed within the Property during the site reconnaissance. However, there the status of the backup generator tank was not discerned. There is possibly up to 2,500 gallons of diesel in the generator's belly tank.
Storage Tanks (underground and above-ground)	One above-ground storage tank was observed during the site reconnaissance. A 2,500-gallon diesel belly tank system on a large generator is located at the rear of the building.
Odors	No odors indicative of hazardous materials or petroleum material impacts were noted at the time of the reconnaissance.
Pools of Potentially Hazardous Liquid	No pools of potentially hazardous liquid were observed within the Property at the time of our reconnaissance.
Drums	No drums were observed on the Property at the time of the reconnaissance.
Polychlorinated Biphenyls (PCBs) Containing Equipment	Potential PCB-containing equipment, including transformers, were observed within the Property during our site reconnaissance. A large amount of electronics, power substations, a large transformer, and fluorescent lighting systems were also observed.

FEATURE TYPE	OBSERVATIONS
Hazardous Substances and Petroleum Product Containers	No hazardous substance or petroleum product containers were observed on the Property at the time of our reconnaissance. However, the status of the backup generator tank was not discerned. There is possibly up to 2,500 gallons of diesel in the generator's belly tank.
Pits, Ponds, and Lagoons	No pits, ponds or lagoons were observed within the Property at the time of our reconnaissance.
Stained Soil/Pavement	No stained soil or pavement was observed within the Property at the time of our reconnaissance.
Stressed Vegetation	No signs of stressed vegetation were observed on the Property at the time of our reconnaissance.
Solid Waste/Debris	No disposal of solid waste was observed at the subject Property. However, the building is full of materials that will require disposal, including batteries, electronics, office supplies, etc..
Stockpiles/Fill Material	No stockpiles or fill material were observed on the Property during the reconnaissance.
Wastewater	No wastewater conveyance systems were observed at the Property during the reconnaissance.
Wells	No wells were found within the Property during our site reconnaissance. The current building is serviced by municipal water systems. The proposed residential buildings would also be serviced by municipal water systems.
Septic Systems	No septic systems were found within the Property during our site reconnaissance. The current building is serviced by municipal waste water systems. The proposed residential buildings would also be serviced by municipal waste water systems.

### 4.3 INTERIOR OBSERVATIONS

The inside of the two-story building had office space, kitchens, a loading dock, a game room, server rooms, former call center rooms, electronics areas, elevated floors with cooling systems, and a variety of other rooms and systems. A large amount of materials will need to be disposed of during the demolition of the structure. Disposal of batteries, transformers, power systems, pumps, cooling equipment, furniture, lighting, electronics, a large generator with fuel, and other materials will require disposal at appropriate facilities.

A Halon fire suppression system is operable at the Property. Halon (short for halogenated hydrocarbon) is a liquefied gas that is used to extinguish fire by chemically interrupting the combustion chain reaction. It is non-conducting and described as a "clean agent," as it leaves no residue after being discharged.

### 4.4 ASBESTOS, LEAD, AND PCB-CONTAINING MATERIALS

An asbestos, lead, and PCB-containing building material survey was not conducted as part of this assessment. Given the age of the existing structures, it is conceivable that asbestos, lead, and PCB-containing materials may exist within the structures.

## 5.0 INTERVIEWS

Ms. Heide Antonescu completed an environmental site questionnaire pertaining to client-related applicable environmental information regarding the Property. In the questionnaire, Ms. Antonescu did not identify potentially environmentally related issues with the Property. The questionnaire is presented in its entirety in Appendix G. A summary is provided below.

Ms. Antonescu is unaware of commonly known, reasonably ascertainable, or specialized knowledge indicative of releases or threatened releases that is material to the potential presence of RECs. She did mention the presence of the following infrastructure at the Property.

- Cooling towers
- 150,000 square feet of raised flooring with multiple computer room air conditioning (CRAC) units
- A pre-action fire suppression
- A Fike fire control system
- A 1,500 kilowatt (kW) diesel generator with a 2,500-gallon fuel tank, and a 500 kilovolt-ampere (kVA)
- Eaton un-interruptible power supply

Ms. Antonescu has indicated that the purchase price of the Property is reflective of fair market value of the Property.

A key site manager questionnaire was provided by the current Property owner. Mr. Vijay Pillai did not identify potentially environmentally related issues with the Property. Mr. Pillai stated that Sieva Property LLC has owned the Property since June of 2018. The questionnaire is presented in its entirety in Appendix G.

## 6.0 FINDINGS AND CONCLUSIONS

This assessment included a review of local, state, tribal, and federal environmental record sources, standard historical sources, aerial photographs, fire insurance maps and physical setting sources. A reconnaissance of the Property was completed to review site use and current conditions to check for the storage, use, production, or disposal of hazardous or potentially hazardous materials and to conduct written/oral interviews with persons knowledgeable about current and past site use.

The site reconnaissance and records review did not find documentation or physical evidence of soil or groundwater impairments associated with the use or past use of the Property. A review of regulatory databases maintained by county, state, tribal, and federal agencies found no documentation of hazardous materials violations or discharge on the Property and did not identify contaminated facilities within the appropriate American Society for Testing and Materials (ASTM) search distances that would reasonably be expected to impact the Property.

Based on the findings of this assessment, no RECs, no historical RECs, and no controlled RECs were identified for the Property.

Based on the review of regulatory databases and site reconnaissance, we present information on features of potential environmental concern that were either contained in the databases or observed on the Property. These features were not considered to be RECs. We briefly discuss each feature below.

- Due to the age of the building, a lead based paint and asbestos survey should be carried out.
- Dispose of on-site batteries at an authorized facility.
- Dispose of on-site electronics at an authorized facility.
- Work with PG&E to remove the on-site transformer.
- Work with the County and Fire Departments to remove the on-site generator and 2,500-gallon diesel belly tank.

ENGEO has performed a phase I environmental site assessment in general conformance with the scope and limitations of ASTM E1527-13 and the standards and practices of the All Appropriate Inquiry – Final Rule (40 Code of Federal Regulations Part 312).

It is our opinion that the findings of this study are based on a sufficient level of information obtained during our contracted scope of services to render a conclusion as to whether additional appropriate investigation is required to identify the presence or likely presence of a REC.

This assessment has revealed no evidence of RECs in connection with the Property, and we believe the Property is suitable for the proposed residential development. ENGEO recommends no further environmental studies at this time. We recommend completion of the surveys and disposal of materials mentioned above.

## **7.0 LIMITATIONS**

### **7.1 SIGNIFICANT ASSUMPTIONS OR DEVIATIONS FROM ASTM STANDARD PRACTICE**

No significant assumptions or deviations from the ASTM Standard Practice were identified.

### **7.2 OPINIONS AND DATA GAPS**

It is our opinion that the findings of this study are based on a sufficient level of information obtained during our contracted scope of services to render a conclusion as to whether additional appropriate investigation is required to identify the presence or likely presence of a REC. No data gaps were identified during the report generation.

### **7.3 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT**

The professional staff at ENGEO strives to perform its services in a proper and professional manner with reasonable care and competence but is not infallible. The recommendations and conclusions presented in this report were based on the findings of our study, which were developed solely from the contracted services. The findings of the report are based in part on contracted database research, out-of-house reports, and personal communications. The opinions formed by ENGEO are based on the assumed accuracy of the relied upon data in conjunction with our relevant professional experience related to such data interpretation. ENGEO assumes no liability for the validity of the materials relied upon in the preparation of this report.

This document must not be subject to unauthorized reuse; that is, reuse without written authorization of ENGEO. Such authorization is essential because it requires ENGEO to evaluate the document's applicability given new circumstances, not the least of which is passage of time. The findings from a phase I environmental site assessment are valid for one year after completion of the report. Updates of portions of the assessment may be necessary after a period of 180 days after completion.

This phase I environmental site assessment is not intended to represent a complete soil, soil gas, or groundwater characterization, nor define the depth or extent of soil, soil gas, or groundwater contamination. It is intended to provide an evaluation of potential environmental concerns associated with the use of the Property. A more extensive assessment that would include a subsurface exploration with laboratory testing of soil, soil gas, and groundwater samples could provide more definitive information concerning site-specific conditions. If additional assessment activities are considered for the Property and if other entities are retained to provide such services, ENGEO cannot be held responsible for any and all claims arising from or resulting from the performance of such services by other persons or entities. ENGEO can also not be held responsible from any and all claims arising or resulting from clarifications, adjustments, modifications, discrepancies or other changes necessary to reflect changed field or other conditions.

#### **7.4 SPECIAL TERMS AND CONDITIONS**

ENGEO has prepared this report for the exclusive use of our client, Trumark Homes, LLC. It is recognized and agreed that ENGEO has assumed responsibility only for undertaking the study for the Client. The responsibility for disclosures or reports to a third party and for remedial or mitigative action shall be solely that of the Client.

Laboratory testing of soil, soil gas, or groundwater samples was not within the scope of the contracted services. The assessment did not include an asbestos survey, an evaluation of lead-based paint, an inspection of light ballasts for polychlorinated biphenyls (PCBs), or a mold survey. In addition, a radon evaluation was not performed.

This report is based upon field and other conditions discovered at the time of preparation of ENGEO's assessment. Visual observations referenced in this report are intended only to represent conditions at the time of the reconnaissance. ENGEO would not be aware of site contamination, such as dumping and/or accidental spillage, that occurred subsequent to the reconnaissance conducted by ENGEO personnel.

## SELECTED REFERENCES

California Department of Water Resources (<http://www.water.ca.gov/waterdatalibrary/>)

California Department of Public Health – Radon Program–  
(<https://www.cdph.ca.gov/Programs/CEH/DRSEM/CDPH%20Document%20Library/EMB/Radon/Radon%20Test%20Results.pdf>).

California Geologic Energy Management Division (CalGEM)  
(<https://www.conservation.ca.gov/calgem>)

CalGEM Well Finder  
(<https://maps.conservation.ca.gov/doggr/wellfinder/#openModal/-118.94276/37.12009/6>)

Google Maps (<http://maps.google.com>)





## **FIGURES**

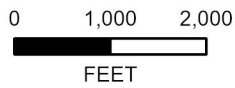
**FIGURE 1: Vicinity Map**

**FIGURE 2: Site Plan**

**FIGURE 3: Assessor's Parcel Map**

**FIGURES 4A-4G: Site Photographs**

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BASEMAP SOURCE: GOOGLE EARTH MAPPING SERVICE 2020



VICINITY MAP  
2481 DEERWOOD DRIVE  
SAN RAMON, CALIFORNIA

PROJECT NO. : 19202.000.001

SCALE: AS SHOWN

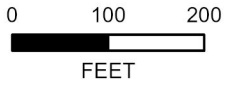
DRAWN BY: NLK

CHECKED BY: JAA

FIGURE NO.

1

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**EXPLANATION**

ALL LOCATIONS ARE APPROXIMATE

 PROJECT SITE

BASEMAP SOURCE: GOOGLE EARTH MAPPING SERVICE 2020



**SITE PLAN**  
2481 DEERWOOD DRIVE  
SAN RAMON, CALIFORNIA

PROJECT NO. :	19202.000.001
SCALE:	AS SHOWN
DRAWN BY: NLK	CHECKED BY: JAA

FIGURE NO.  
**2**

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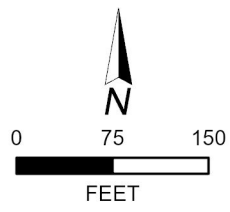
POR. OF 102P.M.32, 33 & 34 8-25-82  
 A-1997 ROLL- TRACT 7986 (CLAREMONT WOODS) M.B.387-40  
 B-2002 ROLL- TRACT 8071 (BOLLINGER CREST) M.B.435-16

FM. 208-24 8-31-82  
 ASSESSOR'S MAP

**EXPLANATION**

ALL LOCATIONS ARE APPROXIMATE

PROJECT SITE



BASEMAP SOURCE: CONTRA COSTA COUNTY ASSESSOR'S OFFICE



**ASSESSOR'S PARCEL MAP**  
 2481 DEERWOOD DRIVE  
 SAN RAMON, CALIFORNIA

PROJECT NO. :	19202.000.001
SCALE:	AS SHOWN
DRAWN BY: NLK	CHECKED BY: JAA

FIGURE NO.  
3

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ENTRY WAY



CONFERENCE ROOM



SECURITY ROOM



SERVER ROOM



PRINTERS



ELECTRONIC COOLING UNIT



SITE PHOTOGRAPHS  
2481 DEERWOOD DRIVE  
SAN RAMON, CALIFORNIA

PROJECT NUMBER: 19202.000.001  
SCALE: NO SCALE  
DRAWN BY: NLK CHECKED BY: JAA

FIGURE NO.  
**4A**

ORIGINAL FIGURE PRINTED IN COLOR

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PHOTO 7

COOLING UNIT AND SERVER RACKS



PHOTO 8

SERVER RACKS ON VENTED FLOOR



PHOTO 9

POWER UNIT



PHOTO 10

SERVER ROOM (AT&T)



PHOTO 11

ELECTRONICS (AT&T)



PHOTO 12

BATTERIES (AT&T)



SITE PHOTOGRAPHS  
2481 DEERWOOD DRIVE  
SAN RAMON, CALIFORNIA

PROJECT NUMBER: 19202.000.001  
SCALE: NO SCALE  
DRAWN BY: NLK CHECKED BY: JAA

FIGURE NO.  
**4B**

ORIGINAL FIGURE PRINTED IN COLOR

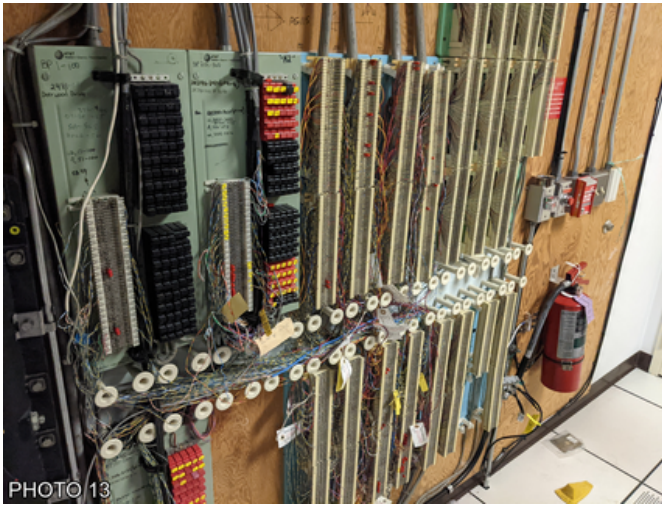


PHOTO 13

OLD ELECTRONICS



PHOTO 14

BATTERIES (AT&T)



PHOTO 15

SPILL RESPONSE BIN



PHOTO 16

POWER SYSTEMS



PHOTO 17

POWER SYSTEMS



PHOTO 18

POWER SYSTEMS



PHOTO 19

POWER SYSTEMS



PHOTO 20

BACKUP BATTERY POWER



PHOTO 21

POWER SYSTEMS



PHOTO 22

PG&E TRANSFORMER

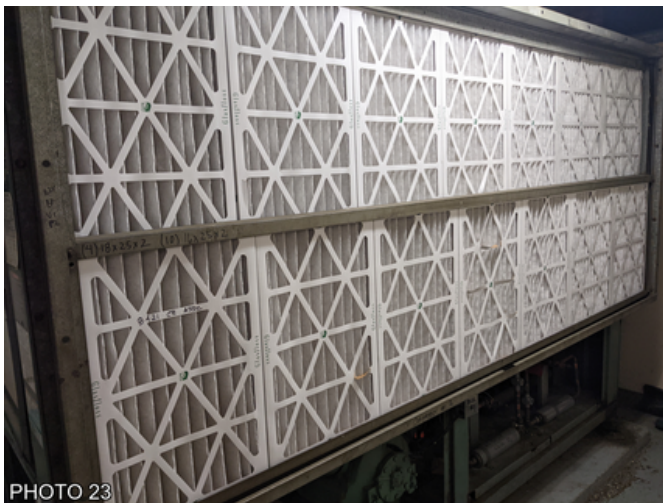


PHOTO 23

HVAC



PHOTO 24

COOLING WATER MANIFOLD



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PHOTO 25

CUBICLES AND FURNITURE



PHOTO 26

GAME ROOM



PHOTO 27

KITCHEN



PHOTO 28

CUBICLES AND PRINTERS



PHOTO 29

FORMER CALL CENTER



PHOTO 30

HALON FIRE SUPPRESSION CONTROL



SITE PHOTOGRAPHS  
2481 DEERWOOD DRIVE  
SAN RAMON, CALIFORNIA

PROJECT NUMBER: 19202.000.001  
SCALE: NO SCALE  
DRAWN BY: NLK CHECKED BY: JAA

FIGURE NO.  
**4E**

ORIGINAL FIGURE PRINTED IN COLOR



PHOTO 31

ELEVATOR



PHOTO 32

REAR OUTLOOK AREA



PHOTO 33

LARGE GENERATOR



PHOTO 34

COOLING TOWER AREA REAR OF BUILDING



PHOTO 35

COOLING TOWER



PHOTO 36

COOLING TOWER & PIPING



LOADING DOCK AREA



BUILDING FRONTAGE



PARKING AREA



## **APPENDIX A**

**ENVIRONMENTAL DATA RESOURCES, INC.**

**Radius Map Report**

**2481 Deerwood Drive**  
2481 Deerwood Drive  
San Ramon, CA 94583

Inquiry Number: 06610051.2r  
August 06, 2021

## 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 (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

2481 DEERWOOD DRIVE  
SAN RAMON, CA 94583

#### COORDINATES

Latitude (North): 37.7737880 - 37° 46' 25.63"  
Longitude (West): 121.9943920 - 121° 59' 39.81"  
Universal Transverse Mercator: Zone 10  
UTM X (Meters): 588563.6  
UTM Y (Meters): 4180987.8  
Elevation: 639 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5640382 DIABLO, CA  
Version Date: 2012  
  
Northwest Map: 5640618 LAS TRAMPAS RIDGE, CA  
Version Date: 2012

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140606  
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:  
2481 DEERWOOD DRIVE  
SAN RAMON, CA 94583

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>	SUNGARD AVAILABILITY	2481 DEERWOOD DR	FINDS, ECHO		TP
<a href="#">A2</a>	SUNGARD AVAILABILTY	2481 DEERWOOD DRIVE	HWTS		TP
<a href="#">A3</a>	SUNGARD AVAILABILTY	2481 DEERWOOD DRIVE	RCRA NonGen / NLR		TP
<a href="#">A4</a>	SUNGARD AVAILABILITY	2481 DEERWOOD DR	AST, CERS TANKS, CONTRA COSTA CO. SITE LIST, CERS		TP
<a href="#">A5</a>	SUNGARD AVAILABILITY	2481 DEERWOOD DRIVE	EMI, CERS		TP
<a href="#">B6</a>	SAN RAMON VALLEY FIR	2323 CROW CANYON RD	SWEEPS UST	Lower	203, 0.038, SSE
<a href="#">B7</a>	VERIZON WIRELESS CRO	2001 CROW CANYON RD	CONTRA COSTA CO. SITE LIST, CERS	Lower	414, 0.078, South
<a href="#">8</a>	CITY OF SAN RAMON PE	2401 CROW CANYON RD	EMI, HAZNET, CONTRA COSTA CO. SITE LIST, HWTS	Lower	593, 0.112, SSE
<a href="#">C9</a>	SAN RAMON VALLEY FIR	1600 BOLLINGER CANYO	UST	Lower	595, 0.113, SSW
<a href="#">C10</a>	SAN RAMON VALLEY FIR	1600 BOLLINGER CANYO	AST, CERS TANKS, DRYCLEANERS, EMI, CONTRA COSTA...	Lower	595, 0.113, SSW
<a href="#">D11</a>	JOHN MUIR MEDICAL CE	205 PORTER DR	UST, CONTRA COSTA CO. SITE LIST	Higher	650, 0.123, ENE
<a href="#">D12</a>	JOHN MUIR EMERGI-CEN	205 PORTER DR	SWEEPS UST	Higher	650, 0.123, ENE
<a href="#">D13</a>	JOHN MUIR PHYSICIAN	200 PORTER DRIVE SUI	RCRA NonGen / NLR	Lower	752, 0.142, East
<a href="#">D14</a>	JOHN MUIR PHYSICIAN	200 PORTER DR 300	CERS HAZ WASTE, CONTRA COSTA CO. SITE LIST, CERS	Lower	752, 0.142, East
<a href="#">D15</a>	JOHN MUIR PHYSICIAN	200 PORTER DR STE 30	RCRA NonGen / NLR	Lower	752, 0.142, East
<a href="#">16</a>	MAST RANCH	18895 BOLLINGER CANY	SWEEPS UST, HIST UST, CONTRA COSTA CO. SITE LIST	Lower	799, 0.151, NW
<a href="#">E17</a>	INDEPENDENT HOLDINGS	100 PARK PLACE	EMI, CONTRA COSTA CO. SITE LIST, CERS	Lower	1127, 0.213, ESE
<a href="#">E18</a>	PARK PLACE MEDICAL B	100 PARK PLACE	EMI, CONTRA COSTA CO. SITE LIST	Lower	1127, 0.213, ESE
<a href="#">F19</a>	DON WINSLOW	2504 FOUNTAINHEAD DR	RCRA NonGen / NLR	Lower	1242, 0.235, SSE
<a href="#">F20</a>	JOHN ALBERTI	2500 FOUNTAINHEAD DR	RCRA NonGen / NLR	Lower	1255, 0.238, SSE



# 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
SUNGARD AVAILABILITY 2481 DEERWOOD DR SAN RAMON, CA 94583	FINDS Registry ID:: 110038076177  ECHO Registry ID: 110038076177	N/A
SUNGARD AVAILABILTY 2481 DEERWOOD DRIVE SAN RAMON, CA 94583	HWTS	N/A
SUNGARD AVAILABILTY 2481 DEERWOOD DRIVE SAN RAMON, CA 94583	RCRA NonGen / NLR	CAC003081243
SUNGARD AVAILABILITY 2481 DEERWOOD DR SAN RAMON, CA 94583	AST Database: AST, Date of Government Version: 07/06/2016  CERS TANKS CONTRA COSTA CO. SITE LIST Facility Id: FA0030645  CERS	N/A
SUNGARD AVAILABILITY 2481 DEERWOOD DRIVE SAN RAMON, CA 94583	EMI Facility Id: 16097  CERS	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

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

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

## EXECUTIVE SUMMARY

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

Delisted NPL..... National Priority List Deletions

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

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

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

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

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

CORRACTS..... Corrective Action Report

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

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

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

RCRA-LQG..... RCRA - Large Quantity Generators  
RCRA-SQG..... RCRA - Small Quantity Generators  
RCRA-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

### ***Federal institutional controls / engineering controls registries***

LUCIS..... Land Use Control Information System  
US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROLS..... Institutional Controls Sites List

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

ERNS..... Emergency Response Notification System

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

RESPONSE..... State Response Sites

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

ENVIROSTOR..... EnviroStor Database

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

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

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

LUST..... Geotracker's Leaking Underground Fuel Tank Report  
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

## EXECUTIVE SUMMARY

CPS-SLIC..... Statewide SLIC Cases

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

FEMA UST..... Underground Storage Tank Listing  
INDIAN UST..... Underground Storage Tanks on Indian Land

### **State and tribal voluntary cleanup sites**

VCP..... Voluntary Cleanup Program Properties  
INDIAN VCP..... Voluntary Cleanup Priority Listing

### **State and tribal Brownfields sites**

BROWNFIELDS..... Considered Brownfields Sites Listing

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### **Local Brownfield lists**

US BROWNFIELDS..... A Listing of Brownfields Sites

#### **Local Lists of Landfill / Solid Waste Disposal Sites**

WMUDS/SWAT..... Waste Management Unit Database  
SWRCY..... Recycler Database  
HAULERS..... Registered Waste Tire Haulers Listing  
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands  
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  
HIST Cal-Sites..... Historical Calsites Database  
SCH..... School Property Evaluation Program  
CDL..... Clandestine Drug Labs  
Toxic Pits..... Toxic Pits Cleanup Act Sites  
US CDL..... National Clandestine Laboratory Register  
PFAS..... PFAS Contamination Site Location Listing

#### **Local Lists of Registered Storage Tanks**

CA FID UST..... Facility Inventory Database

#### **Local Land Records**

LIENS..... Environmental Liens Listing  
LIENS 2..... CERCLA Lien Information  
DEED..... Deed Restriction Listing

#### **Records of Emergency Release Reports**

HMIRS..... Hazardous Materials Information Reporting System

## EXECUTIVE SUMMARY

CHMIRS.....	California Hazardous Material Incident Report System
LDS.....	Land Disposal Sites Listing
MCS.....	Military Cleanup Sites Listing
SPILLS 90.....	SPILLS 90 data from FirstSearch

### **Other Ascertainable Records**

FUDS.....	Formerly Used Defense Sites
DOD.....	Department of Defense Sites
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR.....	Financial Assurance Information
EPA WATCH LIST.....	EPA WATCH LIST
2020 COR ACTION.....	2020 Corrective Action Program List
TSCA.....	Toxic Substances Control Act
TRIS.....	Toxic Chemical Release Inventory System
SSTS.....	Section 7 Tracking Systems
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
UXO.....	Unexploded Ordnance Sites
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN.....	Bond Expenditure Plan
Cortese.....	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings.....	CUPA Resources List
ENF.....	Enforcement Action Listing
Financial Assurance.....	Financial Assurance Information Listing
HAZNET.....	Facility and Manifest Data
ICE.....	ICE
HIST CORTESE.....	Hazardous Waste & Substance Site List
HWP.....	EnviroStor Permitted Facilities Listing
HWT.....	Registered Hazardous Waste Transporter Database
MINES.....	Mines Site Location Listing
MWMP.....	Medical Waste Management Program Listing
NPDES.....	NPDES Permits Listing

## EXECUTIVE SUMMARY

PEST LIC.....	Pesticide Regulation Licenses Listing
PROC.....	Certified Processors Database
Notify 65.....	Proposition 65 Records
UIC.....	UIC Listing
UIC GEO.....	UIC GEO (GEOTRACKER)
WASTEWATER PITS.....	Oil Wastewater Pits Listing
WDS.....	Waste Discharge System
WIP.....	Well Investigation Program Case List
MILITARY PRIV SITES.....	MILITARY PRIV SITES (GEOTRACKER)
PROJECT.....	PROJECT (GEOTRACKER)
WDR.....	Waste Discharge Requirements Listing
CIWQS.....	California Integrated Water Quality System
NON-CASE INFO.....	NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS.....	OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS.....	PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT.....	SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ.....	Well Stimulation Project (GEOTRACKER)
MINES MRDS.....	Mineral Resources Data System

### EDR HIGH RISK HISTORICAL RECORDS

#### *EDR Exclusive Records*

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner.....	EDR Exclusive Historical Cleaners

### EDR RECOVERED GOVERNMENT ARCHIVES

#### *Exclusive Recovered Govt. Archives*

RGA LF.....	Recovered Government Archive Solid Waste Facilities List
RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### STANDARD ENVIRONMENTAL RECORDS

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

## EXECUTIVE SUMMARY

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 2 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>JOHN MUIR MEDICAL CE</b> Database: UST, Date of Government Version: 03/08/2021 Facility Id: 770063	<b>205 PORTER DR</b>	<b>ENE 0 - 1/8 (0.123 mi.)</b>	<b>D11</b>	<b>49</b>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SAN RAMON VALLEY FIR Database: UST, Date of Government Version: 03/08/2021 Facility Id: 771272	1600 BOLLINGER CANYO	SSW 0 - 1/8 (0.113 mi.)	C9	33

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there is 1 AST 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>SAN RAMON VALLEY FIR</b> Database: AST, Date of Government Version: 07/06/2016	<b>1600 BOLLINGER CANYO</b>	<b>SSW 0 - 1/8 (0.113 mi.)</b>	<b>C10</b>	<b>33</b>

### ADDITIONAL ENVIRONMENTAL RECORDS

#### **Local Lists of Hazardous waste / Contaminated Sites**

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 04/19/2021 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>JOHN MUIR PHYSICIAN</b>	<b>200 PORTER DR 300</b>	<b>E 1/8 - 1/4 (0.142 mi.)</b>	<b>D14</b>	<b>53</b>

#### **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

## EXECUTIVE SUMMARY

3 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>
JOHN MUIR EMERGI-CEN Status: A Tank Status: A Comp Number: 70063	205 PORTER DR	ENE 0 - 1/8 (0.123 mi.)	D12	50
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SAN RAMON VALLEY FIR Status: A Tank Status: A Comp Number: 71272	2323 CROW CANYON RD	SSE 0 - 1/8 (0.038 mi.)	B6	26
<b>MAST RANCH</b> Comp Number: 46071	<b>18895 BOLLINGER CANY</b>	<b>NW 1/8 - 1/4 (0.151 mi.)</b>	<b>16</b>	<b>57</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 is 1 HIST UST 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>MAST RANCH</b> Facility Id: 00000046071	<b>18895 BOLLINGER CANY</b>	<b>NW 1/8 - 1/4 (0.151 mi.)</b>	<b>16</b>	<b>57</b>

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 04/19/2021 has revealed that there is 1 CERS TANKS 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>SAN RAMON VALLEY FIR</b>	<b>1600 BOLLINGER CANYO</b>	<b>SSW 0 - 1/8 (0.113 mi.)</b>	<b>C10</b>	<b>33</b>

### **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 03/22/2021 has revealed that there are 4 RCRA NonGen / NLR sites 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>
JOHN MUIR PHYSICIAN	200 PORTER DRIVE SUI	E 1/8 - 1/4 (0.142 mi.)	D13	50

## EXECUTIVE SUMMARY

EPA ID:: CAL000421228				
JOHN MUIR PHYSICIAN EPA ID:: CAL000446584	200 PORTER DR STE 30	E 1/8 - 1/4 (0.142 mi.)	D15	55
DON WINSLOW EPA ID:: CAC003048853	2504 FOUNTAINHEAD DR	SSE 1/8 - 1/4 (0.235 mi.)	F19	61
JOHN ALBERTI EPA ID:: CAC003051563	2500 FOUNTAINHEAD DR	SSE 1/8 - 1/4 (0.238 mi.)	F20	64

DRYCLEANERS: 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 cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, has revealed that there is 1 DRYCLEANERS 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>SAN RAMON VALLEY FIR</b> Database: DRYCLEANERS, Date of Government Version: 03/01/2021 EPA Id: CAL000173401	<b>1600 BOLLINGER CANYO</b>	<b>SSW 0 - 1/8 (0.113 mi.)</b>	<b>C10</b>	<b>33</b>

CONTRA COSTA CO. SITE LIST: Lists includes sites from the Underground Tank Program, Hazardous Waste Generator Program & Business Plan 12185 Program

A review of the CONTRA COSTA CO. SITE LIST list, as provided by EDR, and dated 04/21/2021 has revealed that there are 8 CONTRA COSTA CO. SITE LIST 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>JOHN MUIR MEDICAL CE</b> Facility Id: FA0032618	<b>205 PORTER DR</b>	<b>ENE 0 - 1/8 (0.123 mi.)</b>	<b>D11</b>	<b>49</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>VERIZON WIRELESS CRO</b> Facility Id: FA0038977	<b>2001 CROW CANYON RD</b>	<b>S 0 - 1/8 (0.078 mi.)</b>	<b>B7</b>	<b>27</b>
<b>CITY OF SAN RAMON PE</b> Facility Id: FA0030347	<b>2401 CROW CANYON RD</b>	<b>SSE 0 - 1/8 (0.112 mi.)</b>	<b>8</b>	<b>29</b>
<b>SAN RAMON VALLEY FIR</b> Facility Id: FA0028042	<b>1600 BOLLINGER CANYO</b>	<b>SSW 0 - 1/8 (0.113 mi.)</b>	<b>C10</b>	<b>33</b>
<b>JOHN MUIR PHYSICIAN</b> Facility Id: FA0043406 Facility Id: FA0043823	<b>200 PORTER DR 300</b>	<b>E 1/8 - 1/4 (0.142 mi.)</b>	<b>D14</b>	<b>53</b>
<b>MAST RANCH</b> Facility Id: FA0032309	<b>18895 BOLLINGER CANY</b>	<b>NW 1/8 - 1/4 (0.151 mi.)</b>	<b>16</b>	<b>57</b>
<b>INDEPENDENT HOLDINGS</b> Facility Id: FA0043229	<b>100 PARK PLACE</b>	<b>ESE 1/8 - 1/4 (0.213 mi.)</b>	<b>E17</b>	<b>59</b>
<b>PARK PLACE MEDICAL B</b>	<b>100 PARK PLACE</b>	<b>ESE 1/8 - 1/4 (0.213 mi.)</b>	<b>E18</b>	<b>60</b>



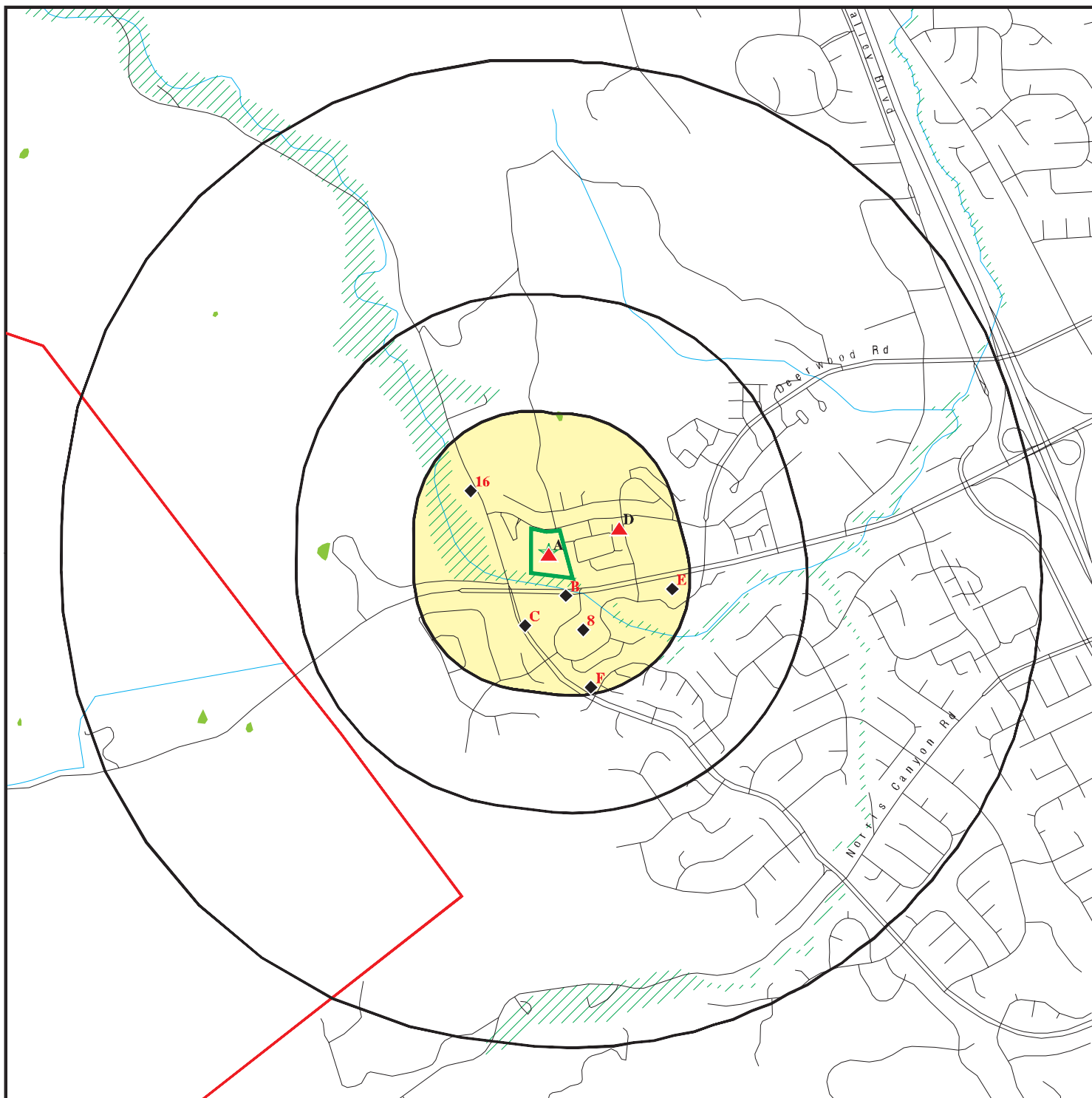
# EXECUTIVE SUMMARY







Facility Id: FA0035142








## EXECUTIVE SUMMARY

There were no unmapped sites in this report.

# OVERVIEW MAP - 06610051.2R



-  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

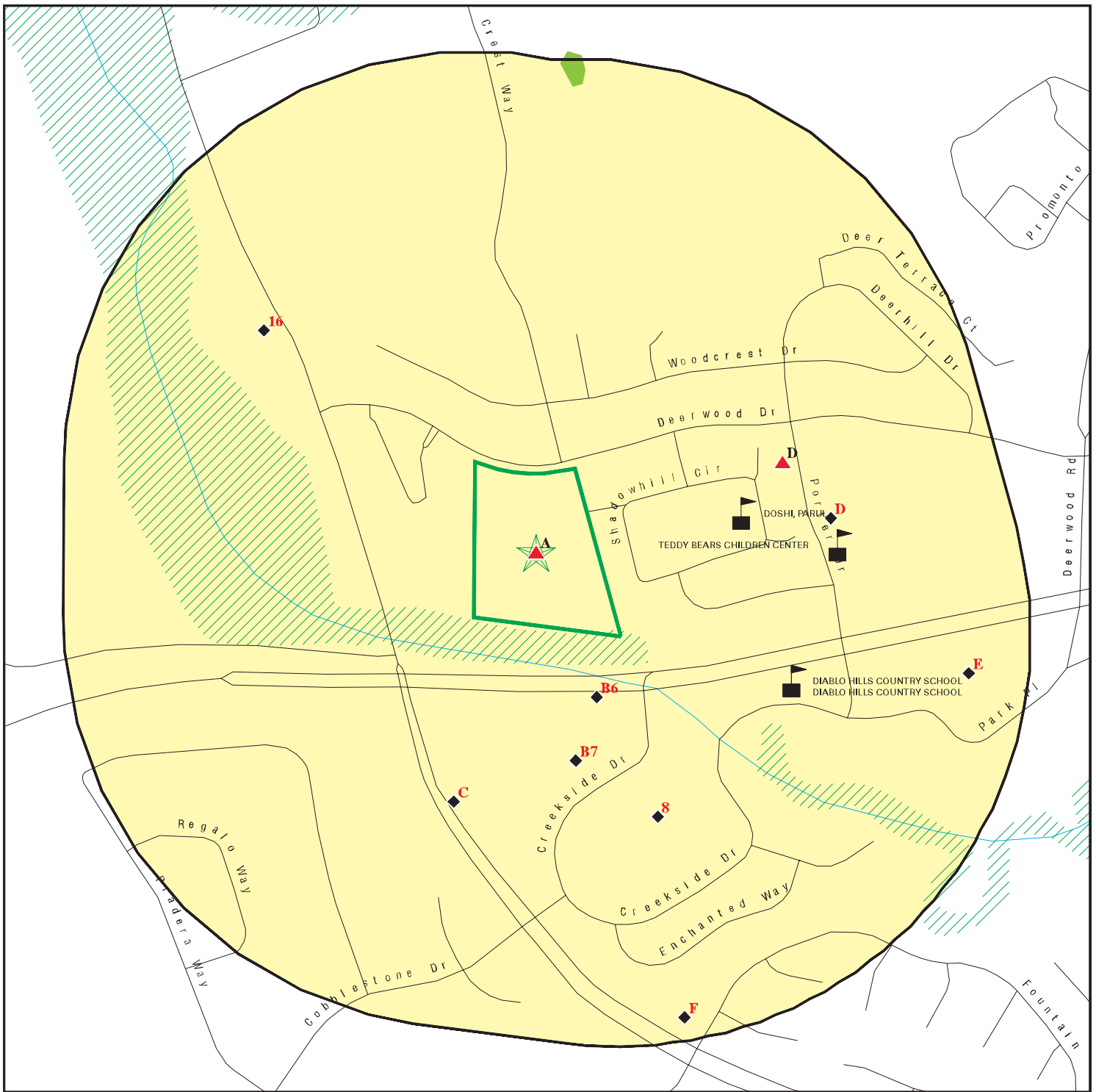
-  Indian Reservations BIA
-  County Boundary
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory
-  State Wetlands
-  Areas of Concern








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: 2481 Deerwood Drive  
 ADDRESS: 2481 Deerwood Drive  
 San Ramon CA 94583  
 LAT/LONG: 37.773788 / 121.994392

CLIENT: Engeo Inc.  
 CONTACT: Stephen Fallon  
 INQUIRY #: 06610051.2r  
 DATE: August 06, 2021 2:46 pm

# DETAIL MAP - 06610051.2R



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  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: 2481 Deerwood Drive ADDRESS: 2481 Deerwood Drive San Ramon CA 94583 LAT/LONG: 37.773788 / 121.994392	CLIENT: Engeo Inc. CONTACT: Stephen Fallon INQUIRY #: 06610051.2r DATE: August 06, 2021 2:47 pm
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## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST 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>State- and tribal - equivalent NPL RESPONSE</i></b>								
RESPONSE	1.000		0	0	0	0	NR	0
<b><i>State- and tribal - equivalent CERCLIS ENVIROSTOR</i></b>								
ENVIROSTOR	1.000		0	0	0	0	NR	0
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
LUST	0.500		0	0	0	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
<b>State and tribal registered storage tank lists</b>								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		2	0	NR	NR	NR	2
AST	0.250	1	1	0	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	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>Local Lists of Hazardous waste / Contaminated Sites</b>								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	1	NR	NR	NR	1
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Registered Storage Tanks</b>								
SWEEPS UST	0.250		2	1	NR	NR	NR	3
HIST UST	0.250		0	1	NR	NR	NR	1
CA FID UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250	1	1	0	NR	NR	NR	2
<b>Local Land Records</b>								
LIENS	0.001		0	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
<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	4	NR	NR	NR	5
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	1	0	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001	1	0	NR	NR	NR	NR	1
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		1	0	NR	NR	NR	1
EMI	0.001	1	0	NR	NR	NR	NR	1
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	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
CONTRA COSTA CO. SITE USE	0.250	1	4	4	NR	NR	NR	9
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 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
HWTS	TP	1	NR	NR	NR	NR	NR	1
MINES MRDS	0.001		0	NR	NR	NR	NR	0
<b><u>EDR HIGH RISK HISTORICAL RECORDS</u></b>								
<b><i>EDR Exclusive Records</i></b>								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
<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		0	NR	NR	NR	NR	0
- Totals --		10	11	11	0	0	0	32



## MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>&lt; 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt; 1</u>	<u>Total Plotted</u>
-----------------	--	----------------------------	-----------------	------------------	------------------	----------------	---------------	--------------------------

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** **SUNGARD AVAILABILITY SERVICES**  
**Target** **2481 DEERWOOD DR**  
**Property** **SAN RAMON, CA 94583**

**FINDS** **1011979872**  
**ECHO** **N/A**

**Site 1 of 5 in cluster A**

**Actual:** FINDS:  
**639 ft.** Registry ID: 110038076177

Click Here:  
Environmental Interest/Information System:  
AIR EMISSIONS CLASSIFICATION UNKNOWN  
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.  
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:  
Envid: 1011979872  
Registry ID: 110038076177  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110038076177>  
Name: SUNGARD AVAILABILITY SERVICES  
Address: 2481 DEERWOOD DR  
City,State,Zip: SAN RAMON, CA 94583

**A2** **SUNGARD AVAILABILTY SERVICES**  
**Target** **2481 DEERWOOD DRIVE**  
**Property** **SAN RAMON, CA 94583**

**HWTS** **S124576196**  
**N/A**

**Site 2 of 5 in cluster A**

**Actual:** HWTS:  
**639 ft.** Name: SUNGARD  
Address: 2481 DEERWOOD DR  
Address 2: Not reported  
City,State,Zip: SAN RAMON, CA 94583  
EPA ID: CAC002567416  
Inactive Date: 01/06/2004  
Create Date: 07/09/2003  
Last Act Date: 07/09/2003  
Mailing Name: AUDREY SIBBRING  
Mailing Address: 2481 DEERWOOD DR  
Mailing Address 2: Not reported  
Mailing City,State,Zip: SAN RAMON, CA 94583  
Owner Name: SUNGARD RECOVERY SERVICES LP  
Owner Address: 680 E SWEDESSWORD RD  
Owner Address 2: Not reported  
Owner City,State,Zip: WAYNE, PA 19087  
Contact Name: AUDREY SIBBRING  
Contact Address: 2481 DEERWOOD DR  
Contact Address 2: Not reported  
City,State,Zip: SAN RAMON, CA 94583  
  
Name: SUNGARD AVAILABILTY SERVICES

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SUNGARD AVAILABILITY SERVICES (Continued)**

**S124576196**

Address: 2481 DEERWOOD DRIVE  
 Address 2: Not reported  
 City,State,Zip: SAN RAMON, CA 94583  
 EPA ID: CAC003081243  
 Inactive Date: 11/26/2020  
 Create Date: 08/27/2020  
 Last Act Date: 11/27/2020  
 Mailing Name: Not reported  
 Mailing Address: 2481 DEERWOOD DRIVE  
 Mailing Address 2: Not reported  
 Mailing City,State,Zip: SAN RAMON, CA 94583  
 Owner Name: SUNGARD AVAILABILTY SERVICES  
 Owner Address: 2481 DEERWOOD DRIVE  
 Owner Address 2: Not reported  
 Owner City,State,Zip: SAN RAMON, CA 94583  
 Contact Name: CALVIN GIN  
 Contact Address: 2481 DEERWOOD DRIVE  
 Contact Address 2: Not reported  
 City,State,Zip: SAN RAMON, CA 94583

NAICS:  
 EPA ID: CAC003081243  
 Create Date: 2020-08-27 10:42:56.483  
 NAICS Code: 541519  
 NAICS Description: Other Computer Related Services  
 Issued EPA ID Date: 2020-08-27 10:42:56.49700  
 Inactive Date: 2020-11-26 10:42:56.48300  
 Facility Name: SUNGARD AVAILABILTY SERVICES  
 Facility Address: 2481 DEERWOOD DRIVE  
 Facility Address 2: Not reported  
 Facility City: SAN RAMON  
 Facility County: Not reported  
 Facility State: CA  
 Facility Zip: 94583

<b>A3</b>	<b>SUNGARD AVAILABILTY SERVICES</b>	<b>RCRA NonGen / NLR</b>	<b>1026475489</b>
<b>Target</b>	<b>2481 DEERWOOD DRIVE</b>		<b>CAC003081243</b>
<b>Property</b>	<b>SAN RAMON, CA 94583</b>		

**Site 3 of 5 in cluster A**

**Actual:** RCRA NonGen / NLR:  
**639 ft.** Date Form Received by Agency: 2020-08-27 00:00:00.0  
 Handler Name: SUNGARD AVAILABILTY SERVICES  
 Handler Address: 2481 DEERWOOD DRIVE  
 Handler City,State,Zip: SAN RAMON, CA 94583  
 EPA ID: CAC003081243  
 Contact Name: CALVIN GIN  
 Contact Address: 2481 DEERWOOD DRIVE  
 Contact City,State,Zip: SAN RAMON, CA 94583  
 Contact Telephone: 925-831-2230  
 Contact Fax: 925-831-2203  
 Contact Email: CALVIN.M.GIN@SUNGARDAS.COM  
 Contact Title: Not reported  
 EPA Region: 09  
 Land Type: Not reported  
 Federal Waste Generator Description: Not a generator, verified

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SUNGARD AVAILABILITY SERVICES (Continued)**

**1026475489**

Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	2481 DEERWOOD DRIVE
Mailing City,State,Zip:	SAN RAMON, CA 94583
Owner Name:	SUNGARD AVAILABILTY SERVICES
Owner Type:	Other
Operator Name:	CALVIN GIN
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:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNGARD AVAILABILITY SERVICES (Continued)**

**1026475489**

Significant Non-Complier With a Compliance Schedule Universe: No  
Financial Assurance Required: Not reported  
Handler Date of Last Change: 2020-09-04 15:31:18.0  
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: SUNGARD AVAILABILTY SERVICES  
Legal Status: Other  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 2481 DEERWOOD DRIVE  
Owner/Operator City,State,Zip: SAN RAMON, CA 94583  
Owner/Operator Telephone: 925-831-2230  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: CALVIN GIN  
Legal Status: Other  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 2481 DEERWOOD DRIVE  
Owner/Operator City,State,Zip: SAN RAMON, CA 94583  
Owner/Operator Telephone: 925-831-2230  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 2020-08-27 00:00:00.0  
Handler Name: SUNGARD AVAILABILTY SERVICES  
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: 541519  
NAICS Description: OTHER COMPUTER RELATED SERVICES

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNGARD AVAILABILTY SERVICES (Continued)**

**1026475489**

Facility Has Received Notices of Violations:  
Violations: No Violations Found

Evaluation Action Summary:  
Evaluations: No Evaluations Found

**A4  
Target  
Property**

**SUNGARD AVAILABILITY SERVICES - SAN RAMON  
2481 DEERWOOD DR  
SAN RAMON, CA 94583**

**AST  
CERS TANKS  
CONTRA COSTA CO. SITE LIST  
CERS**

**S109548413  
N/A**

**Site 4 of 5 in cluster A**

**Actual:  
639 ft.**

AST:  
Name: SUNGARD AVAILABILITY SERVICES - SAN RAMON  
Address: 2481 DEERWOOD DR  
City/Zip: SAN RAMON,94583  
Certified Unified Program Agencies: Not reported  
Owner: Sungard Availability Services  
Total Gallons: Not reported  
CERSID: 10484083  
Facility ID: 07-000-773976  
Business Name: Sungard Availability Services  
Phone: 925-831-2230  
Fax: Not reported  
Mailing Address: 2481 Deerwood Dr  
Mailing Address City: San Ramon  
Mailing Address State: CA  
Mailing Address Zip Code: 94583  
Operator Name: Sungard Availability Services  
Operator Phone: 925-831-3700  
Owner Phone: 925-831-3700  
Owner Mail Address: 680 East Swedesford Road  
Owner State: PA  
Owner Zip Code: 19087  
Owner Country: United States  
Property Owner Name: Sungard Availability Services  
Property Owner Phone: 925-831-3700  
Property Owner Mailing Address: 680 East Swedesford Road  
Property Owner City: Wayne  
Property Owner Stat : PA  
Property Owner Zip Code: 19087  
Property Owner Country: United States  
EPAID: Not reported

CERS TANKS:  
Name: SUNGARD AVAILABILITY SERVICES - SAN RAMON  
Address: 2481 DEERWOOD DR  
City,State,Zip: SAN RAMON, CA 94583  
Site ID: 72210  
CERS ID: 10484083  
CERS Description: Aboveground Petroleum Storage

CONTRA COSTA CO. SITE LIST:  
Name: SUNGARD AVAILABILITY SERVICES - SAN RAMON  
Address: 2481 DEERWOOD DR

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNGARD AVAILABILITY SERVICES - SAN RAMON (Continued)**

**S109548413**

City: SAN RAMON  
Facility ID: FA0030645  
Billing Status: ACTIVE, BILLABLE  
Program Status: CONTRA COSTA CO. SITE LIST  
Program/Elements: APSA: <10K GALLONS  
Region: CONTRA COSTA  
Cupa Number: 773976  
CERS ID: 10484083

Name: SUNGARD AVAILABILITY SERVICES - SAN RAMON  
Address: 2481 DEERWOOD DR  
City: SAN RAMON  
Facility ID: FA0030645  
Billing Status: ACTIVE, BILLABLE  
Program Status: CONTRA COSTA CO. SITE LIST  
Program/Elements: HMBP: >10K-100K LBS, 20+ EMPLOYEES  
Region: CONTRA COSTA  
Cupa Number: 773976  
CERS ID: 10484083

Name: SUNGARD AVAILABILITY SERVICES - SAN RAMON  
Address: 2481 DEERWOOD DR  
City: SAN RAMON  
Facility ID: FA0030645  
Billing Status: INACTIVE, NON-BILLABLE  
Program Status: CONTRA COSTA CO. SITE LIST  
Program/Elements: APSA: <10K GALLONS  
Region: CONTRA COSTA  
Cupa Number: 773976  
CERS ID: 10484083

Name: SUNGARD AVAILABILITY SERVICES - SAN RAMON  
Address: 2481 DEERWOOD DR  
City: SAN RAMON  
Facility ID: FA0030645  
Billing Status: INACTIVE, NON-BILLABLE  
Program Status: CONTRA COSTA CO. SITE LIST  
Program/Elements: HMBP: >10K-100K LBS, 20+ EMPLOYEES  
Region: CONTRA COSTA  
Cupa Number: 773976  
CERS ID: 10484083

**CERS:**

Name: SUNGARD AVAILABILITY SERVICES - SAN RAMON  
Address: 2481 DEERWOOD DR  
City,State,Zip: SAN RAMON, CA 94583  
Site ID: 72210  
CERS ID: 10484083  
CERS Description: Chemical Storage Facilities

**Violations:**

Site ID: 72210  
Site Name: Sungard Availability Services - San Ramon  
Violation Date: 09-02-2015  
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)  
Violation Description: Failure to implement the following security measures for the facility:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNGARD AVAILABILITY SERVICES - SAN RAMON (Continued)**

**S109548413**

1. Secure and control access to the oil handling, processing and storage areas. 2. Secure the master flow and drain valves that permit direct outward flow to the surface in the closed position when in a non-operating or standby status. 3. Lock starter controls on pumps in the "off" position or locate at a site accessible only to authorized personnel when pumps are not in a non-operating or standby status. 4. Cap or blank-flange loading and unloading connection(s) of piping/pipelines when not in service or standby status; and 5. Provide adequate facility lighting to facilitate the discovery of spills during hours of darkness and to deter vandalism.

Violation Notes: Returned to compliance on 04/12/2016.  
Violation Division: Contra Costa County Health Services Department  
Violation Program: APSA  
Violation Source: CERS

Site ID: 72210  
Site Name: Sungard Availability Services - San Ramon  
Violation Date: 01-29-2019  
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67 , Section(s) 25270.4.5(a)

Violation Description: Failure to design drainage from undiked areas to either: 1. Flow into catchment basins, ponds, or lagoons to retain oil or return it to the facility. OR 2. Equip the facility with a diversion system that would retain oil in the facility.

Violation Notes: Returned to compliance on 02/19/2021. OBSERVATION: Facilities SPCC Plan does not have written procedures according to cfr 112.8 (b). failure to Equip the facility with a diversion system that would retain diesel in the facility, in case of a spill. Diesel tank is located approx 400 feet from san ramon creek. flow direction is towards the creek. CORRECTIVE ACTION: Design and describe in your spcc plan in accordance with cfr 112.8 (b) a method to divert diesel from the storm drain in the case of a spill.

Violation Division: Contra Costa County Health Services Department  
Violation Program: APSA  
Violation Source: CERS

Site ID: 72210  
Site Name: Sungard Availability Services - San Ramon  
Violation Date: 03-04-2016  
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)

Violation Description: Failure to implement the following security measures for the facility:  
1. Secure and control access to the oil handling, processing and storage areas. 2. Secure the master flow and drain valves that permit direct outward flow to the surface in the closed position when in a non-operating or standby status. 3. Lock starter controls on pumps in the "off" position or locate at a site accessible only to authorized personnel when pumps are not in a non-operating or standby status. 4. Cap or blank-flange loading and unloading connection(s) of piping/pipelines when not in service or standby status; and 5. Provide adequate facility lighting to facilitate the discovery of spills during hours of darkness and to deter vandalism.

Violation Notes: Returned to compliance on 04/12/2016.  
Violation Division: Contra Costa County Health Services Department  
Violation Program: APSA  
Violation Source: CERS



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNGARD AVAILABILITY SERVICES - SAN RAMON (Continued)**

**S109548413**

Site ID: 72210  
Site Name: Sungard Availability Services - San Ramon  
Violation Date: 01-29-2019  
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)  
Violation Description: Failure to discuss in the SPCC Plan procedures to test or inspect each aboveground container for integrity in accordance with industry standards: 1. On a regular schedule. 2. After material repairs are made. 3. By qualified personnel. 4. The frequency and type of testing and inspections based on container size, configuration, and design.  
Violation Notes: Returned to compliance on 02/19/2021. OBSERVATION: Page 9, section 6.8 of facility SPCC Plan states that visual inspection will be performed on a daily basis. Daily inspections are currently not being performed by facility. CORRECTIVE ACTION: Revise SPCC Plan to adequately discuss facility's procedures to test and inspect aboveground tanks in accordance with specified industry standards.  
Violation Division: Contra Costa County Health Services Department  
Violation Program: APSA  
Violation Source: CERS

Site ID: 72210  
Site Name: Sungard Availability Services - San Ramon  
Violation Date: 12-18-2018  
Citation: HSC 6.67 25270.4.5 (a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5 (a)  
Violation Description: Failure to complete a review and evaluation of the SPCC Plan at least once every five years, document the completion of the review, and sign a statement as to whether the SPCC Plan will be amended.  
Violation Notes: Returned to compliance on 01/29/2019. OBSERVATION: Facility only has a 2008 version of their SPCC Plan. CORRECTIVE ACTION: Update and review your SPCC Plan every 5 years. Complete and document the 5 year review of SPCC Plan and submit verification of proper completion to cchs.  
Violation Division: Contra Costa County Health Services Department  
Violation Program: APSA  
Violation Source: CERS

Site ID: 72210  
Site Name: Sungard Availability Services - San Ramon  
Violation Date: 09-02-2015  
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple  
Violation Description: APSA Program - Administration/Documentation - General  
Violation Notes: Returned to compliance on 03/04/2016.  
Violation Division: Contra Costa County Health Services Department  
Violation Program: APSA  
Violation Source: CERS

Evaluation:  
Eval General Type: Other/Unknown  
Eval Date: 01-29-2019  
Violations Found: Yes  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: APSA  
Eval Source: CERS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNGARD AVAILABILITY SERVICES - SAN RAMON (Continued)**

**S109548413**

Eval General Type: Other/Unknown  
Eval Date: 02-12-2021  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: APSA  
Eval Source: CERS

Eval General Type: Other/Unknown  
Eval Date: 03-04-2016  
Violations Found: Yes  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: APSA  
Eval Source: CERS

Eval General Type: Other/Unknown  
Eval Date: 04-12-2016  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: APSA  
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 09-02-2015  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: HMRRP  
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 09-02-2015  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: APSA  
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 11-13-2020  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: APSA  
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 11-13-2020  
Violations Found: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNGARD AVAILABILITY SERVICES - SAN RAMON (Continued)**

**S109548413**

Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: HMRRP  
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 12-18-2018  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: HMRRP  
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 12-18-2018  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: APSA  
Eval Source: CERS

Enforcement Action:  
Site ID: 72210  
Site Name: Sungard Availability Services - San Ramon  
Site Address: 2481 DEERWOOD DR  
Site City: SAN RAMON  
Site Zip: 94583  
Enf Action Date: 01-29-2019  
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: Contra Costa County Health Services Department  
Enf Action Program: APSA  
Enf Action Source: CERS

Site ID: 72210  
Site Name: Sungard Availability Services - San Ramon  
Site Address: 2481 DEERWOOD DR  
Site City: SAN RAMON  
Site Zip: 94583  
Enf Action Date: 03-04-2016  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: Not reported  
Enf Action Division: Contra Costa County Health Services Department  
Enf Action Program: APSA  
Enf Action Source: CERS

Site ID: 72210  
Site Name: Sungard Availability Services - San Ramon  
Site Address: 2481 DEERWOOD DR  
Site City: SAN RAMON  
Site Zip: 94583  
Enf Action Date: 09-02-2015

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNGARD AVAILABILITY SERVICES - SAN RAMON (Continued)**

**S109548413**

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: Contra Costa County Health Services Department  
Enf Action Program: APSA  
Enf Action Source: CERS

Site ID: 72210  
Site Name: Sungard Availability Services - San Ramon  
Site Address: 2481 DEERWOOD DR  
Site City: SAN RAMON  
Site Zip: 94583  
Enf Action Date: 12-18-2018  
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: Contra Costa County Health Services Department  
Enf Action Program: APSA  
Enf Action Source: CERS

Coordinates:

Site ID: 72210  
Facility Name: Sungard Availability Services - San Ramon  
Env Int Type Code: APSA  
Program ID: 10484083  
Coord Name: Not reported  
Ref Point Type Desc: Center of a facility or station.  
Latitude: 37.773780  
Longitude: -121.994390

Affiliation:

Affiliation Type Desc: Legal Owner  
Entity Name: Sungard Availability Services  
Entity Title: Not reported  
Affiliation Address: 680 East Swedesford Road  
Affiliation City: Wayne  
Affiliation State: PA  
Affiliation Country: United States  
Affiliation Zip: 19087  
Affiliation Phone: (925) 831-3700

Affiliation Type Desc: CUPA District  
Entity Name: Contra Costa County Health Services Department  
Entity Title: Not reported  
Affiliation Address: 4585 Pacheco BlvdSuite 100  
Affiliation City: Martinez  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94553  
Affiliation Phone: (925) 655-3200

Affiliation Type Desc: Environmental Contact  
Entity Name: Michael Grassmick  
Entity Title: Not reported  
Affiliation Address: 550 E. 84th Ave, suite E5  
Affiliation City: Thornton

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNGARD AVAILABILITY SERVICES - SAN RAMON (Continued)**

**S109548413**

Affiliation State:	CO
Affiliation Country:	Not reported
Affiliation Zip:	80229
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2481 Deerwood Dr
Affiliation City:	San Ramon
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94583
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Michael Grassmick
Entity Title:	Director of Data Center Engineering
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Sievan Networks
Entity Title:	Not reported
Affiliation Address:	2481 Deerwood Dr
Affiliation City:	San Ramon
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94583
Affiliation Phone:	(206) 849-6370
Affiliation Type Desc:	Document Preparer
Entity Name:	Michael Grassmick
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:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Sungard Availability Services
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:	(925) 831-3700
Affiliation Type Desc:	Parent Corporation
Entity Name:	Sieva Properties

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNGARD AVAILABILITY SERVICES - SAN RAMON (Continued)**

**S109548413**

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: Not reported

**A5** **SUNGARD AVAILABILITY SERVICES**  
**Target** **2481 DEERWOOD DRIVE**  
**Property** **SAN RAMON, CA 94583**

**EMI** **S108433374**  
**CERS** **N/A**

**Site 5 of 5 in cluster A**

**Actual:**  
**639 ft.**

EMI:  
Name: SUNGARD RECOVERY SERVICESLP  
Address: 2481 DEERWOOD DRIVE  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2005  
County Code: 7  
Air Basin: SF  
Facility ID: 16097  
Air District Name: BA  
SIC Code: 4953  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: .007  
Reactive Organic Gases Tons/Yr: .0058569  
Carbon Monoxide Emissions Tons/Yr: .019  
NOX - Oxides of Nitrogen Tons/Yr: .088  
SOX - Oxides of Sulphur Tons/Yr: .001  
Particulate Matter Tons/Yr: .006  
Part. Matter 10 Micrometers and Smlr Tons/Yr:.005856

Name: SUNGARD RECOVERY SERVICESLP  
Address: 2481 DEERWOOD DRIVE  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2006  
County Code: 7  
Air Basin: SF  
Facility ID: 16097  
Air District Name: BA  
SIC Code: 4953  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: .007  
Reactive Organic Gases Tons/Yr: .0058569  
Carbon Monoxide Emissions Tons/Yr: .019  
NOX - Oxides of Nitrogen Tons/Yr: .088  
SOX - Oxides of Sulphur Tons/Yr: .001  
Particulate Matter Tons/Yr: .006  
Part. Matter 10 Micrometers and Smlr Tons/Yr:.005856

Name: SUNGARD RECOVERY SERVICESLP  
Address: 2481 DEERWOOD DRIVE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNGARD AVAILABILITY SERVICES (Continued)**

**S108433374**

City,State,Zip: SAN RAMON, CA 94583  
Year: 2007  
County Code: 7  
Air Basin: SF  
Facility ID: 16097  
Air District Name: BA  
SIC Code: 4953  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: .003  
Reactive Organic Gases Tons/Yr: .0025101  
Carbon Monoxide Emissions Tons/Yr: .008  
NOX - Oxides of Nitrogen Tons/Yr: .114  
SOX - Oxides of Sulphur Tons/Yr: .004  
Particulate Matter Tons/Yr: .003  
Part. Matter 10 Micrometers and Smlr Tons/Yr:.002928

Name: SUNGARD RECOVERY SERVICESLP  
Address: 2481 DEERWOOD DRIVE  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2008  
County Code: 7  
Air Basin: SF  
Facility ID: 16097  
Air District Name: BA  
SIC Code: 4953  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: .003  
Reactive Organic Gases Tons/Yr: .0025101  
Carbon Monoxide Emissions Tons/Yr: .008  
NOX - Oxides of Nitrogen Tons/Yr: .114  
SOX - Oxides of Sulphur Tons/Yr: .004  
Particulate Matter Tons/Yr: .003  
Part. Matter 10 Micrometers and Smlr Tons/Yr:.002928

Name: SUNGARD RECOVERY SERVICESLP  
Address: 2481 DEERWOOD DRIVE  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2009  
County Code: 7  
Air Basin: SF  
Facility ID: 16097  
Air District Name: BA  
SIC Code: 4953  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.001  
Reactive Organic Gases Tons/Yr: 8.367000000000001E-4  
Carbon Monoxide Emissions Tons/Yr: 0.002  
NOX - Oxides of Nitrogen Tons/Yr: 2.900000000000001E-2  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0.00102459016393442  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNGARD AVAILABILITY SERVICES (Continued)**

**S108433374**

Name: SUNGARD RECOVERY SERVICESLP  
Address: 2481 DEERWOOD DRIVE  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2010  
County Code: 7  
Air Basin: SF  
Facility ID: 16097  
Air District Name: BA  
SIC Code: 4953  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.001  
Reactive Organic Gases Tons/Yr: 8.3670000000000001E-4  
Carbon Monoxide Emissions Tons/Yr: 0.002  
NOX - Oxides of Nitrogen Tons/Yr: 2.9000000000000001E-2  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0.00102459016393442  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.001

Name: SUNGARD RECOVERY SERVICESLP  
Address: 2481 DEERWOOD DRIVE  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2011  
County Code: 7  
Air Basin: SF  
Facility ID: 16097  
Air District Name: BA  
SIC Code: 4953  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.002  
Reactive Organic Gases Tons/Yr: 0.0016734  
Carbon Monoxide Emissions Tons/Yr: 0.005  
NOX - Oxides of Nitrogen Tons/Yr: 0.069  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Name: SUNGARD RECOVERY SERVICESLP  
Address: 2481 DEERWOOD DRIVE  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2012  
County Code: 7  
Air Basin: SF  
Facility ID: 16097  
Air District Name: BA  
SIC Code: 4953  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.002  
Reactive Organic Gases Tons/Yr: 0.0016734  
Carbon Monoxide Emissions Tons/Yr: 0.005  
NOX - Oxides of Nitrogen Tons/Yr: 0.069  
SOX - Oxides of Sulphur Tons/Yr: 0



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNGARD AVAILABILITY SERVICES (Continued)**

**S108433374**

Particulate Matter Tons/Yr: 0.0020491803279  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.002

Name: SUNGARD RECOVERY SERVICESLP  
Address: 2481 DEERWOOD DRIVE  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2013  
County Code: 7  
Air Basin: SF  
Facility ID: 16097  
Air District Name: BA  
SIC Code: 4953  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.002  
Reactive Organic Gases Tons/Yr: 0.0016734  
Carbon Monoxide Emissions Tons/Yr: 0.005  
NOX - Oxides of Nitrogen Tons/Yr: 0.071  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0.002  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.002

Name: SUNGARD RECOVERY SERVICESLP  
Address: 2481 DEERWOOD DRIVE  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2014  
County Code: 7  
Air Basin: SF  
Facility ID: 16097  
Air District Name: BA  
SIC Code: 4953  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.002107585  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0.005120218  
NOX - Oxides of Nitrogen Tons/Yr: 0.070950636  
SOX - Oxides of Sulphur Tons/Yr: 6.7425e-005  
Particulate Matter Tons/Yr: 0.001931027  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.001853786

Name: SUNGARD AVAILABILITY SERVICES  
Address: 2481 DEERWOOD DRIVE  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2015  
County Code: 7  
Air Basin: SF  
Facility ID: 16097  
Air District Name: BA  
SIC Code: 4953  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.000792044  
Reactive Organic Gases Tons/Yr: 0.000740081

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNGARD AVAILABILITY SERVICES (Continued)**

**S108433374**

Carbon Monoxide Emissions Tons/Yr: 0.001924211  
NOX - Oxides of Nitrogen Tons/Yr: 0.02666371  
SOX - Oxides of Sulphur Tons/Yr: 2.5339e-005  
Particulate Matter Tons/Yr: 0.000725693  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.000696665

Name: SUNGARD AVAILABILITY SERVICES  
Address: 2481 DEERWOOD DRIVE  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2016  
County Code: 7  
Air Basin: SF  
Facility ID: 16097  
Air District Name: BA  
SIC Code: 4953  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.000792044  
Reactive Organic Gases Tons/Yr: 0.000695810654  
Carbon Monoxide Emissions Tons/Yr: 0.001924211  
NOX - Oxides of Nitrogen Tons/Yr: 0.026663707  
SOX - Oxides of Sulphur Tons/Yr: 2.5339e-005  
Particulate Matter Tons/Yr: 0.000725693  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.000696665

Name: SUNGARD AVAILABILITY SERVICES  
Address: 2481 DEERWOOD DRIVE  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2017  
County Code: 7  
Air Basin: SF  
Facility ID: 16097  
Air District Name: BA  
SIC Code: 4953  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.001417521  
Reactive Organic Gases Tons/Yr: 0.0012452921985  
Carbon Monoxide Emissions Tons/Yr: 0.00344376  
NOX - Oxides of Nitrogen Tons/Yr: 0.047720025  
SOX - Oxides of Sulphur Tons/Yr: 4.5349e-005  
Particulate Matter Tons/Yr: 0.001298772  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.001246821

Name: SUNGARD AVAILABILITY SERVICES  
Address: 2481 DEERWOOD DRIVE  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2018  
County Code: 7  
Air Basin: SF  
Facility ID: 16097  
Air District Name: BA  
SIC Code: 4953  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUNGARD AVAILABILITY SERVICES (Continued)**

**S108433374**

Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.001418462  
Reactive Organic Gases Tons/Yr: 0.001246118867  
Carbon Monoxide Emissions Tons/Yr: 0.003446045  
NOX - Oxides of Nitrogen Tons/Yr: 0.04775169  
SOX - Oxides of Sulphur Tons/Yr: 4.5379e-005  
Particulate Matter Tons/Yr: 0.001299634  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0.001247648

**CERS:**

Name: SUNGARD AVAILABILITY SERVICES  
Address: 2481 DEERWOOD DRIVE  
City,State,Zip: SAN RAMON, CA 94583-1540  
Site ID: 496898  
CERS ID: 110038076177  
CERS Description: US EPA Air Emission Inventory System (EIS)

**B6**  
**SSE**  
**< 1/8**  
**0.038 mi.**  
**203 ft.**

**SAN RAMON VALLEY FIRE STA 38**  
**2323 CROW CANYON RD**  
**SAN RAMON, CA 94583**

**SWEEPS UST** **S106931854**  
**N/A**

**Site 1 of 2 in cluster B**

**Relative:**  
**Lower**  
**Actual:**  
**567 ft.**

**SWEEPS UST:**  
Name: SAN RAMON VALLEY FIRE STA 38  
Address: 2323 CROW CANYON RD  
City: SAN RAMON  
Status: Active  
Comp Number: 71272  
Number: 4  
Board Of Equalization: Not reported  
Referral Date: 11-21-90  
Action Date: 11-21-90  
Created Date: 11-21-90  
Owner Tank Id: Not reported  
SWRCB Tank Id: 07-000-071272-000001  
Tank Status: A  
Capacity: 2000  
Active Date: 11-21-90  
Tank Use: M.V. FUEL  
STG: P  
Content: REG UNLEADED  
Number Of Tanks: 2

Name: SAN RAMON VALLEY FIRE STA 38  
Address: 2323 CROW CANYON RD  
City: SAN RAMON  
Status: Active  
Comp Number: 71272  
Number: 4  
Board Of Equalization: Not reported  
Referral Date: 11-21-90  
Action Date: 11-21-90  
Created Date: 11-21-90  
Owner Tank Id: Not reported  
SWRCB Tank Id: 07-000-071272-000002  
Tank Status: A

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN RAMON VALLEY FIRE STA 38 (Continued)**

**S106931854**

Capacity: 1000  
Active Date: 11-21-90  
Tank Use: M.V. FUEL  
STG: P  
Content: DIESEL  
Number Of Tanks: Not reported

**B7**  
**South**  
**< 1/8**  
**0.078 mi.**  
**414 ft.**

**VERIZON WIRELESS CROW CANYON BOLLINGER**  
**2001 CROW CANYON RD**  
**SAN RAMON, CA 94583**

**CONTRA COSTA CO. SITE LIST**  
**CERS**

**S120629575**  
**N/A**

**Site 2 of 2 in cluster B**

**Relative:**  
**Lower**  
**Actual:**  
**573 ft.**

**CONTRA COSTA CO. SITE LIST:**  
Name: VERIZON WIRELESS CROW CANYON BOLLINGER  
Address: 2001 CROW CANYON RD  
City: SAN RAMON  
Facility ID: FA0038977  
Billing Status: ACTIVE, BILLABLE  
Program Status: CONTRA COSTA CO. SITE LIST  
Program/Elements: HMBP: 1K-10K LBS, 0-19 EMPLOYEES  
Region: CONTRA COSTA  
Cupa Number: 775396  
CERS ID: 10708900

**CERS:**  
Name: VERIZON WIRELESS CROW CANYON BOLLINGER  
Address: 2001 CROW CANYON RD  
City,State,Zip: SAN RAMON, CA 94583  
Site ID: 410433  
CERS ID: 10708900  
CERS Description: Chemical Storage Facilities

**Evaluation:**  
Eval General Type: Compliance Evaluation Inspection  
Eval Date: 06-21-2019  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: HMRRP  
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 12-12-2017  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: HMRRP  
Eval Source: CERS

**Coordinates:**  
Site ID: 410433  
Facility Name: Verizon Wireless Crow Canyon Bollinger  
Env Int Type Code: HMBP  
Program ID: 10708900

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VERIZON WIRELESS CROW CANYON BOLLINGER (Continued)**

**S120629575**

Coord Name: Not reported  
Ref Point Type Desc: Center of a facility or station.  
Latitude: 37.771950  
Longitude: -121.993950

Affiliation:

Affiliation Type Desc: Document Preparer  
Entity Name: Steve Skanderson  
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: Not reported

Affiliation Type Desc: Environmental Contact  
Entity Name: Environmental Compliance  
Entity Title: Not reported  
Affiliation Address: 295 Parkshore Drive  
Affiliation City: Folsom  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 95630  
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address  
Entity Name: Mailing Address  
Entity Title: Not reported  
Affiliation Address: 295 Parkshore Drive  
Affiliation City: Folsom  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 95630  
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer  
Entity Name: armand delgado  
Entity Title: environmental compliance mgr  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner  
Entity Name: KEZU Properties  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: United States  
Affiliation Zip: Not reported  
Affiliation Phone: (925) 553-3675

Affiliation Type Desc: Operator

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**VERIZON WIRELESS CROW CANYON BOLLINGER (Continued)**

**S120629575**

Entity Name: Verizon Wireless  
 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: (866) 694-2415

Affiliation Type Desc: Parent Corporation  
 Entity Name: Verizon Wireless [Northern California]  
 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: Not reported

Affiliation Type Desc: CUPA District  
 Entity Name: Contra Costa County Health Services Department  
 Entity Title: Not reported  
 Affiliation Address: 4585 Pacheco BlvdSuite 100  
 Affiliation City: Martinez  
 Affiliation State: CA  
 Affiliation Country: Not reported  
 Affiliation Zip: 94553  
 Affiliation Phone: (925) 655-3200

Affiliation Type Desc: Legal Owner  
 Entity Name: Verizon Wireless  
 Entity Title: Not reported  
 Affiliation Address: 295 Parkshore Drive  
 Affiliation City: Folsom  
 Affiliation State: CA  
 Affiliation Country: United States  
 Affiliation Zip: 95630  
 Affiliation Phone: (866) 694-2415

**8**  
**SSE**  
**< 1/8**  
**0.112 mi.**  
**593 ft.**

**CITY OF SAN RAMON PERMIT CENTER & POLICE DEPARTMEN**  
**2401 CROW CANYON RD**  
**SAN RAMON, CA 94583**

**EMI** **S112964087**  
**HAZNET** **N/A**  
**CONTRA COSTA CO. SITE LIST**  
**HWTS**

**Relative:**  
**Lower**  
**Actual:**  
**574 ft.**

EMI:  
 Name: CITY OF SAN RAMON  
 Address: 2401 CROW CANYON ROAD  
 City,State,Zip: SAN RAMON, CA 94583  
 Year: 2012  
 County Code: 7  
 Air Basin: SF  
 Facility ID: 20623  
 Air District Name: BA  
 SIC Code: 8062  
 Air District Name: BAY AREA AQMD  
 Community Health Air Pollution Info System: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CITY OF SAN RAMON PERMIT CENTER & POLICE DEPARTMENT (Continued)**

**S112964087**

Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0.002  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Name: CITY OF SAN RAMON  
Address: 2401 CROW CANYON ROAD  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2013  
County Code: 7  
Air Basin: SF  
Facility ID: 20623  
Air District Name: BA  
SIC Code: 8062  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0.002  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Name: CITY OF SAN RAMON  
Address: 2401 CROW CANYON ROAD  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2014  
County Code: 7  
Air Basin: SF  
Facility ID: 20623  
Air District Name: BA  
SIC Code: 8062  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 7.0682e-005  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0.000338467  
NOX - Oxides of Nitrogen Tons/Yr: 0.001873474  
SOX - Oxides of Sulphur Tons/Yr: 1.849e-006  
Particulate Matter Tons/Yr: 5.0235e-005  
Part. Matter 10 Micrometers and Smlr Tons/Yr:4.8226e-005

Name: CITY OF SAN RAMON  
Address: 2401 CROW CANYON ROAD  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2015  
County Code: 7  
Air Basin: SF  
Facility ID: 20623  
Air District Name: BA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CITY OF SAN RAMON PERMIT CENTER & POLICE DEPARTMENT (Continued)**

**S112964087**

SIC Code: 8062  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 7.0682e-005  
Reactive Organic Gases Tons/Yr: 6.31e-005  
Carbon Monoxide Emissions Tons/Yr: 0.000338467  
NOX - Oxides of Nitrogen Tons/Yr: 0.001873474  
SOX - Oxides of Sulphur Tons/Yr: 1.849e-006  
Particulate Matter Tons/Yr: 5.0235e-005  
Part. Matter 10 Micrometers and Smlr Tons/Yr:4.8226e-005

Name: CITY OF SAN RAMON  
Address: 2401 CROW CANYON ROAD  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2016  
County Code: 7  
Air Basin: SF  
Facility ID: 20623  
Air District Name: BA  
SIC Code: 8062  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 7.0682e-005  
Reactive Organic Gases Tons/Yr: 6.2094137e-005  
Carbon Monoxide Emissions Tons/Yr: 0.000338467  
NOX - Oxides of Nitrogen Tons/Yr: 0.001873474  
SOX - Oxides of Sulphur Tons/Yr: 1.849e-006  
Particulate Matter Tons/Yr: 5.0235e-005  
Part. Matter 10 Micrometers and Smlr Tons/Yr:4.8226e-005

**HAZNET:**

Name: LEGACY PARTNERS II SR CROW CANYON LLC  
Address: 2401 CROW CANYON RD  
Address 2: Not reported  
City,State,Zip: SAN RAMON, CA 945831545  
Contact: WENDY OSBORNE  
Telephone: 6502352582  
Mailing Name: Not reported  
Mailing Address: 4000 E 3RD AVE STE 600

Year: 2007  
Gepaid: CAC002620830  
TSD EPA ID: CAD028409019  
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: 0.025

**Additional Info:**

Year: 2007  
Gen EPA ID: CAC002620830  
Shipment Date: 20070901



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CITY OF SAN RAMON PERMIT CENTER & POLICE DEPARTMENT (Continued)**

**S112964087**

Creation Date: 12/10/2007 18:30:13  
Receipt Date: 20070913  
Manifest ID: 002366014JJK  
Trans EPA ID: CAL000298854  
Trans Name: BAYVIEW ENVIRONMENTAL SERVICES  
Trans 2 EPA ID: CAD982444481  
Trans 2 Name: FILTER RECYCLING SERVICES INC  
TSDf EPA ID: CAD028409019  
Trans Name: CROSBY & OVERTON  
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: 0.025  
Waste Quantity: 50  
Quantity Unit: P  
Additional Code 1: Not reported  
Additional Code 2: Not reported  
Additional Code 3: Not reported  
Additional Code 4: Not reported  
Additional Code 5: Not reported

**CONTRA COSTA CO. SITE LIST:**

Name: CITY OF SAN RAMON PERMIT CENTER & POLICE DEPARTMENT  
Address: 2401 CROW CANYON RD  
City: SAN RAMON  
Facility ID: FA0030347  
Billing Status: ACTIVE, BILLABLE  
Program Status: CONTRA COSTA CO. SITE LIST  
Program/Elements: HMBP: 1K-10K LBS, 20+ EMPLOYEES  
Region: CONTRA COSTA  
Cupa Number: 773678  
CERS ID: 10018759

Name: CITY OF SAN RAMON PERMIT CENTER & POLICE DEPARTMENT  
Address: 2401 CROW CANYON RD  
City: SAN RAMON  
Facility ID: FA0030347  
Billing Status: INACTIVE, NON-BILLABLE  
Program Status: CONTRA COSTA CO. SITE LIST  
Program/Elements: HWG: REPORTED ZERO  
Region: CONTRA COSTA  
Cupa Number: 773678  
CERS ID: 10018759

**HWTS:**

Name: LEGACY PARTNERS II SR CROW CANYON LLC  
Address: 2401 CROW CANYON RD  
Address 2: Not reported  
City,State,Zip: SAN RAMON, CA 945831545  
EPA ID: CAC002620830  
Inactive Date: 02/27/2008  
Create Date: 08/30/2007  
Last Act Date: 03/17/2008

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CITY OF SAN RAMON PERMIT CENTER & POLICE DEPARTMENT (Continued)**

**S112964087**

Mailing Name: Not reported  
Mailing Address: 4000 E 3RD AVE STE 600  
Mailing Address 2: Not reported  
Mailing City,State,Zip: FOSTER CITY, CA 94404  
Owner Name: LEGACY PARTNERS II SR CROW CANYON L  
Owner Address: 4000 E 3RD AVE STE 600  
Owner Address 2: Not reported  
Owner City,State,Zip: FOSTER CITY, CA 94404  
Contact Name: WENDY OSBORNE  
Contact Address: 4000 E 3RD AVE STE 600  
Contact Address 2: Not reported  
City,State,Zip: FOSTER CITY, CA 94404

**C9**  
**SSW**  
**< 1/8**  
**0.113 mi.**  
**595 ft.**

**SAN RAMON VALLEY FIRE STA #38**  
**1600 BOLLINGER CANYON RD**  
**SAN RAMON, CA 94583**

**UST U003941493**  
**N/A**

**Site 1 of 2 in cluster C**

**Relative:**  
**Lower**

**UST:**

Name: SAN RAMON VALLEY FIRE STA #38  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 94583  
Facility ID: 771272  
Permitting Agency: CONTRA COSTA COUNTY  
Latitude: 37.77146  
Longitude: -121.99523

**Actual:**  
**581 ft.**

**C10**  
**SSW**  
**< 1/8**  
**0.113 mi.**  
**595 ft.**

**SAN RAMON VALLEY FIRE STA #38**  
**1600 BOLLINGER CANYON RD**  
**SAN RAMON, CA 94583**

**AST S106176236**  
**CERS TANKS**  
**DRYCLEANERS**  
**EMI**  
**CONTRA COSTA CO. SITE LIST**  
**CERS**

**Site 2 of 2 in cluster C**

**Relative:**  
**Lower**

**AST:**

Name: SAN RAMON VALLEY FIRE STA #38  
Address: 1600 BOLLINGER CANYON RD  
City/Zip: SAN RAMON,94583  
Certified Unified Program Agencies: Not reported  
Owner: San Ramon Valley Fire Protection District  
Total Gallons: Not reported  
CERSID: 10011841  
Facility ID: 07-000-771272  
Business Name: SAN RAMON VALLEY FIRE STA #38  
Phone: 925-838-6638  
Fax: Not reported  
Mailing Address: 1500 Bollinger Canyon Road  
Mailing Address City: San Ramon  
Mailing Address State: CA  
Mailing Address Zip Code: 94583  
Operator Name: San Ramon Valley Fire Protection District  
Operator Phone: 925-838-6600  
Owner Phone: 925-838-6680  
Owner Mail Address: 1500 Bollinger Canyon Road  
Owner State: CA

**Actual:**  
**581 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN RAMON VALLEY FIRE STA #38 (Continued)**

**S106176236**

Owner Zip Code: 94583  
Owner Country: United States  
Property Owner Name: San Ramon Valley Fire Protection District  
Property Owner Phone: 925-838-6600  
Property Owner Mailing Address: 1500 Bollinger Canyon Road  
Property Owner City: San Ramon  
Property Owner Stat : CA  
Property Owner Zip Code: 94583  
Property Owner Country: United States  
EPAID: Not reported

**CERS TANKS:**

Name: SAN RAMON VALLEY FIRE STA #38  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 94583  
Site ID: 401383  
CERS ID: 10011841  
CERS Description: Aboveground Petroleum Storage

**DRYCLEANERS:**

Name: SAN RAMON VALLEY FIRE DISTRICT  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 945830000  
EPA Id: CAL000173401  
NAICS Code: 81232  
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)  
SIC Code: 7211  
SIC Description: Power Laundries, Family and Commercial  
Create Date: 06/16/2000  
Facility Active: No  
Inactive Date: 06/30/2007  
Facility Addr2: Not reported  
Owner Name: SAN RAMON VALLEY FIRE DIST  
Owner Address: 1600 BOLLINGER CANYON RD  
Owner Address 2: Not reported  
Owner Telephone: 9258386604  
Contact Name: CHRIS SUTER/ASSIST CHIEF  
Contact Address: 1500 BOLLINGER CANYON RD  
Contact Address 2: Not reported  
Contact Telephone: 9258386604  
Contact Fax: Not reported  
Mailing Name: Not reported  
Mailing Address 1: 1500 BOLLINGER CANYON RD  
Mailing Address 2: Not reported  
Mailing City: SAN RAMON  
Mailing State: CA  
Mailing Zip: 945831820  
Owner Fax: Not reported  
Region Code: 2  
Latitude: 37.77155  
Longitude: -121.995365

**EMI:**

Name: SAN RAMON VALLEY FIRE DISTRICT  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 945830000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN RAMON VALLEY FIRE STA #38 (Continued)**

**S106176236**

Year: 2002  
County Code: 7  
Air Basin: SF  
Facility ID: 14022  
Air District Name: BA  
SIC Code: 9224  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Name: SAN RAMON VALLEY FIRE DISTRICT  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 945830000  
Year: 2003  
County Code: 7  
Air Basin: SF  
Facility ID: 14022  
Air District Name: BA  
SIC Code: 9224  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Name: SAN RAMON VALLEY FIRE DISTRICT  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 945830000  
Year: 2004  
County Code: 7  
Air Basin: SF  
Facility ID: 14022  
Air District Name: BA  
SIC Code: 9224  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0.001  
NOX - Oxides of Nitrogen Tons/Yr: 0.004  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN RAMON VALLEY FIRE STA #38 (Continued)**

**S106176236**

Name: SAN RAMON VALLEY FIRE DISTRICT  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 945830000  
Year: 2005  
County Code: 7  
Air Basin: SF  
Facility ID: 14022  
Air District Name: BA  
SIC Code: 9224  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: .001  
NOX - Oxides of Nitrogen Tons/Yr: .004  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Name: SAN RAMON VALLEY FIRE DISTRICT  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 945830000  
Year: 2006  
County Code: 7  
Air Basin: SF  
Facility ID: 14022  
Air District Name: BA  
SIC Code: 9224  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: .001  
NOX - Oxides of Nitrogen Tons/Yr: .004  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Name: SAN RAMON VALLEY FIRE DISTRICT  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 945830000  
Year: 2007  
County Code: 7  
Air Basin: SF  
Facility ID: 14022  
Air District Name: BA  
SIC Code: 9224  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: .039  
Reactive Organic Gases Tons/Yr: .0035646  
Carbon Monoxide Emissions Tons/Yr: .012  
NOX - Oxides of Nitrogen Tons/Yr: .096  
SOX - Oxides of Sulphur Tons/Yr: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN RAMON VALLEY FIRE STA #38 (Continued)**

**S106176236**

Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Name: SAN RAMON VALLEY FIRE DISTRICT  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2008  
County Code: 7  
Air Basin: SF  
Facility ID: 14022  
Air District Name: BA  
SIC Code: 9224  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: .039  
Reactive Organic Gases Tons/Yr: .0035646  
Carbon Monoxide Emissions Tons/Yr: .012  
NOX - Oxides of Nitrogen Tons/Yr: .096  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Name: SAN RAMON VALLEY FIRE DISTRICT  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2009  
County Code: 7  
Air Basin: SF  
Facility ID: 14022  
Air District Name: BA  
SIC Code: 9224  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 4.1000000000000002E-2  
Reactive Organic Gases Tons/Yr: 3.7474000000000001E-3  
Carbon Monoxide Emissions Tons/Yr: 6.0000000000000001E-3  
NOX - Oxides of Nitrogen Tons/Yr: 5.0999999999999997E-2  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Name: SAN RAMON VALLEY FIRE DISTRICT  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2010  
County Code: 7  
Air Basin: SF  
Facility ID: 14022  
Air District Name: BA  
SIC Code: 9224  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 4.2000000000000003E-2  
Reactive Organic Gases Tons/Yr: 3.8387999999999999E-3

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN RAMON VALLEY FIRE STA #38 (Continued)**

**S106176236**

Carbon Monoxide Emissions Tons/Yr: 7.000000000000001E-3  
NOX - Oxides of Nitrogen Tons/Yr: 5.199999999999998E-2  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Name: SAN RAMON VALLEY FIRE DISTRICT  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2011  
County Code: 7  
Air Basin: SF  
Facility ID: 14022  
Air District Name: BA  
SIC Code: 9224  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.042  
Reactive Organic Gases Tons/Yr: 0.0038388  
Carbon Monoxide Emissions Tons/Yr: 0.007  
NOX - Oxides of Nitrogen Tons/Yr: 0.052  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Name: SAN RAMON VALLEY FIRE DISTRICT  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2012  
County Code: 7  
Air Basin: SF  
Facility ID: 14022  
Air District Name: BA  
SIC Code: 9224  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.042  
Reactive Organic Gases Tons/Yr: 0.0038388  
Carbon Monoxide Emissions Tons/Yr: 0.007  
NOX - Oxides of Nitrogen Tons/Yr: 0.052  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Name: SAN RAMON VALLEY FIRE DISTRICT  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2013  
County Code: 7  
Air Basin: SF  
Facility ID: 14022  
Air District Name: BA  
SIC Code: 9224  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN RAMON VALLEY FIRE STA #38 (Continued)**

**S106176236**

Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.017  
Reactive Organic Gases Tons/Yr: 0.0015538  
Carbon Monoxide Emissions Tons/Yr: 0.003  
NOX - Oxides of Nitrogen Tons/Yr: 0.021  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers and Smlr Tons/Yr:0

Name: SAN RAMON VALLEY FIRE DISTRICT  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2014  
County Code: 7  
Air Basin: SF  
Facility ID: 14022  
Air District Name: BA  
SIC Code: 9224  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.017047451  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0.002651667  
NOX - Oxides of Nitrogen Tons/Yr: 0.0209681  
SOX - Oxides of Sulphur Tons/Yr: 3.504e-006  
Particulate Matter Tons/Yr: 6.1667e-005  
Part. Matter 10 Micrometers and Smlr Tons/Yr:6.1667e-005

Name: SAN RAMON VALLEY FIRE DISTRICT  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2015  
County Code: 7  
Air Basin: SF  
Facility ID: 14022  
Air District Name: BA  
SIC Code: 9224  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.02751288  
Reactive Organic Gases Tons/Yr: 0.01392787  
Carbon Monoxide Emissions Tons/Yr: 0.004279525  
NOX - Oxides of Nitrogen Tons/Yr: 0.03384039  
SOX - Oxides of Sulphur Tons/Yr: 5.655e-006  
Particulate Matter Tons/Yr: 9.9524e-005  
Part. Matter 10 Micrometers and Smlr Tons/Yr:9.9524e-005

Name: SAN RAMON VALLEY FIRE DISTRICT  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2016  
County Code: 7  
Air Basin: SF  
Facility ID: 14022  
Air District Name: BA



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN RAMON VALLEY FIRE STA #38 (Continued)**

**S106176236**

SIC Code: 9224  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.027512878  
Reactive Organic Gases Tons/Yr: 0.0025614489418  
Carbon Monoxide Emissions Tons/Yr: 0.004279525  
NOX - Oxides of Nitrogen Tons/Yr: 0.033840391  
SOX - Oxides of Sulphur Tons/Yr: 5.655e-006  
Particulate Matter Tons/Yr: 9.9524e-005  
Part. Matter 10 Micrometers and Smlr Tons/Yr:9.9524e-005

Name: SAN RAMON VALLEY FIRE DISTRICT  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2017  
County Code: 7  
Air Basin: SF  
Facility ID: 14022  
Air District Name: BA  
SIC Code: 9224  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.019337992  
Reactive Organic Gases Tons/Yr: 0.0018003670552  
Carbon Monoxide Emissions Tons/Yr: 0.003007952  
NOX - Oxides of Nitrogen Tons/Yr: 0.023785426  
SOX - Oxides of Sulphur Tons/Yr: 3.975e-006  
Particulate Matter Tons/Yr: 6.9952e-005  
Part. Matter 10 Micrometers and Smlr Tons/Yr:6.9952e-005

Name: SAN RAMON VALLEY FIRE DISTRICT - STATION 38  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2018  
County Code: 7  
Air Basin: SF  
Facility ID: 14022  
Air District Name: BA  
SIC Code: 9224  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.019350824  
Reactive Organic Gases Tons/Yr: 0.0018015617144  
Carbon Monoxide Emissions Tons/Yr: 0.003009948  
NOX - Oxides of Nitrogen Tons/Yr: 0.023801209  
SOX - Oxides of Sulphur Tons/Yr: 3.978e-006  
Particulate Matter Tons/Yr: 6.9999e-005  
Part. Matter 10 Micrometers and Smlr Tons/Yr:6.9999e-005

**CONTRA COSTA CO. SITE LIST:**

Name: SAN RAMON VALLEY FIRE STA #38  
Address: 1600 BOLLINGER CANYON RD  
City: SAN RAMON  
Facility ID: FA0028042

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN RAMON VALLEY FIRE STA #38 (Continued)**

**S106176236**

Billing Status: ACTIVE, BILLABLE  
Program Status: CONTRA COSTA CO. SITE LIST  
Program/Elements: APSA: <10K GALLONS  
Region: CONTRA COSTA  
Cupa Number: 771272  
CERS ID: 10011841  
  
Name: SAN RAMON VALLEY FIRE STA #38  
Address: 1600 BOLLINGER CANYON RD  
City: SAN RAMON  
Facility ID: FA0028042  
Billing Status: ACTIVE, BILLABLE  
Program Status: CONTRA COSTA CO. SITE LIST  
Program/Elements: HMBP: >10K-100K LBS, 0-19 EMPLOYEES  
Region: CONTRA COSTA  
Cupa Number: 771272  
CERS ID: 10011841

Name: SAN RAMON VALLEY FIRE STA #38  
Address: 1600 BOLLINGER CANYON RD  
City: SAN RAMON  
Facility ID: FA0028042  
Billing Status: INACTIVE, NON-BILLABLE  
Program Status: CONTRA COSTA CO. SITE LIST  
Program/Elements: HWG: REPORTED ZERO  
Region: CONTRA COSTA  
Cupa Number: 771272  
CERS ID: 10011841

Name: SAN RAMON VALLEY FIRE STA #38  
Address: 1600 BOLLINGER CANYON RD  
City: SAN RAMON  
Facility ID: FA0028042  
Billing Status: INACTIVE, NON-BILLABLE  
Program Status: CONTRA COSTA CO. SITE LIST  
Program/Elements: UNDERGROUND STORAGE TANK SITE  
Region: CONTRA COSTA  
Cupa Number: 771272  
CERS ID: 10011841

CERS:  
Name: SAN RAMON VALLEY FIRE STA 38  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 94583  
Site ID: 492246  
CERS ID: 110038092845  
CERS Description: US EPA Air Emission Inventory System (EIS)

Affiliation:  
Affiliation Type Desc: Facility Owner  
Entity Name: SAN RAMON VALLEY FIRE PROTECTION DIST  
Entity Title: OWNER  
Affiliation Address: 1600 BOLLINGER CANYON RD  
Affiliation City: SANRAMON  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN RAMON VALLEY FIRE STA #38 (Continued)**

**S106176236**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	CHRIS SUTER
Entity Title:	ASST CHIEF
Affiliation Address:	1600 BOLLINGER CANYON RD
Affiliation City:	SANRAMON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	CHRISTINA KIEFER
Entity Title:	Not reported
Affiliation Address:	1500 BOLLINGER CANYON ROAD
Affiliation City:	SANRAMON
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	STEVE HART
Entity Title:	ENVIRONMENTAL CONTACT
Affiliation Address:	1600 BOLLINGER CANYON RD
Affiliation City:	SANRAMON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	ON DUTY BATTALION CHIEF
Entity Title:	DISPATCH
Affiliation Address:	1600 BOLLINGER CANYON RD
Affiliation City:	SANRAMON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	SAN RAMON VALLEY FIRE DISTRICT
Entity Title:	OPERATOR
Affiliation Address:	255 EAST RINCON SUITE 100
Affiliation City:	CORONA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	SAN RAMON VLY FIRE PROTECT DIST
Entity Title:	Not reported
Affiliation Address:	1500 BOLLINGER CANYON ROAD
Affiliation City:	SANRAMON

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN RAMON VALLEY FIRE STA #38 (Continued)**

**S106176236**

Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: Not reported

Name: SAN RAMON VALLEY FIRE STA #38  
Address: 1600 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 94583  
Site ID: 401383  
CERS ID: 10011841  
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 401383  
Site Name: SAN RAMON VALLEY FIRE STA #38  
Violation Date: 04-14-2017  
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple  
Violation Description: Business Plan Program - Administration/Documentation - General  
Violation Notes: Returned to compliance on 04/18/2017.  
Violation Division: Contra Costa County Health Services Department  
Violation Program: HMRRP  
Violation Source: CERS

Site ID: 401383  
Site Name: SAN RAMON VALLEY FIRE STA #38  
Violation Date: 03-21-2016  
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple  
Violation Description: Business Plan Program - Administration/Documentation - General  
Violation Notes: Returned to compliance on 03/06/2017.  
Violation Division: Contra Costa County Health Services Department  
Violation Program: HMRRP  
Violation Source: CERS

Site ID: 401383  
Site Name: SAN RAMON VALLEY FIRE STA #38  
Violation Date: 03-21-2019  
Citation: HSC 6.67 25270.4.5 (a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5 (a)  
Violation Description: Failure to complete a review and evaluation of the SPCC Plan at least once every five years, document the completion of the review, and sign a statement as to whether the SPCC Plan will be amended.  
Violation Notes: Returned to compliance on 09/30/2020. OBSERVATION: Failure to perform and/or document the five-year review of the SPCC plan. CORRECTIVE ACTION: Complete and document the 5 year review of SPCC Plan and submit verification of proper completion.  
Violation Division: Contra Costa County Health Services Department  
Violation Program: APSA  
Violation Source: CERS

Site ID: 401383  
Site Name: SAN RAMON VALLEY FIRE STA #38  
Violation Date: 03-21-2016  
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple  
Violation Description: Business Plan Program - Administration/Documentation - General

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN RAMON VALLEY FIRE STA #38 (Continued)**

**S106176236**

Violation Notes: Returned to compliance on 03/06/2017. cers failure to submit  
Violation Division: Contra Costa County Health Services Department  
Violation Program: HMRRP  
Violation Source: CERS

Site ID: 401383  
Site Name: SAN RAMON VALLEY FIRE STA #38  
Violation Date: 05-09-2016  
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple  
Violation Description: Business Plan Program - Administration/Documentation - General  
Violation Notes: Returned to compliance on 05/20/2016.  
Violation Division: Contra Costa County Health Services Department  
Violation Program: HMRRP  
Violation Source: CERS

Site ID: 401383  
Site Name: SAN RAMON VALLEY FIRE STA #38  
Violation Date: 03-21-2016  
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple  
Violation Description: APSA Program - Operations/Maintenance - General  
Violation Notes: Returned to compliance on 08/09/2017.  
Violation Division: Contra Costa County Health Services Department  
Violation Program: APSA  
Violation Source: CERS

Site ID: 401383  
Site Name: SAN RAMON VALLEY FIRE STA #38  
Violation Date: 03-21-2016  
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple  
Violation Description: Haz Waste Generator Program - Administration/Documentation - General  
Violation Notes: Returned to compliance on 04/11/2017.  
Violation Division: Contra Costa County Health Services Department  
Violation Program: HW  
Violation Source: CERS

Evaluation:  
Eval General Type: Compliance Evaluation Inspection  
Eval Date: 03-21-2016  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: HW  
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 03-21-2019  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: APSA  
Eval Source: CERS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN RAMON VALLEY FIRE STA #38 (Continued)**

**S106176236**

Eval General Type: Other/Unknown  
Eval Date: 04-14-2017  
Violations Found: Yes  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: HMRRP  
Eval Source: CERS

Eval General Type: Other/Unknown  
Eval Date: 05-09-2016  
Violations Found: Yes  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: HMRRP  
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 07-23-2019  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: HMRRP  
Eval Source: CERS

Eval General Type: Other/Unknown  
Eval Date: 08-09-2017  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: APSA  
Eval Source: CERS

Eval General Type: Other/Unknown  
Eval Date: 08-09-2017  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: HMRRP  
Eval Source: CERS

Eval General Type: Other/Unknown  
Eval Date: 08-09-2017  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: HW  
Eval Source: CERS

Eval General Type: Other/Unknown  
Eval Date: 09-30-2020  
Violations Found: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN RAMON VALLEY FIRE STA #38 (Continued)**

**S106176236**

Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: APSA  
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 03-21-2016  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: APSA  
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 03-21-2016  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Contra Costa County Health Services Department  
Eval Program: HMRRP  
Eval Source: CERS

Enforcement Action:  
Site ID: 401383  
Site Name: SAN RAMON VALLEY FIRE STA #38  
Site Address: 1600 BOLLINGER CANYON RD  
Site City: SAN RAMON  
Site Zip: 94583  
Enf Action Date: 03-21-2016  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: Not reported  
Enf Action Division: Contra Costa County Health Services Department  
Enf Action Program: APSA  
Enf Action Source: CERS

Site ID: 401383  
Site Name: SAN RAMON VALLEY FIRE STA #38  
Site Address: 1600 BOLLINGER CANYON RD  
Site City: SAN RAMON  
Site Zip: 94583  
Enf Action Date: 03-21-2016  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: Not reported  
Enf Action Division: Contra Costa County Health Services Department  
Enf Action Program: HMRRP  
Enf Action Source: CERS

Site ID: 401383  
Site Name: SAN RAMON VALLEY FIRE STA #38  
Site Address: 1600 BOLLINGER CANYON RD  
Site City: SAN RAMON  
Site Zip: 94583  
Enf Action Date: 03-21-2016

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN RAMON VALLEY FIRE STA #38 (Continued)**

**S106176236**

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: Contra Costa County Health Services Department  
Enf Action Program: HW  
Enf Action Source: CERS

Site ID: 401383  
Site Name: SAN RAMON VALLEY FIRE STA #38  
Site Address: 1600 BOLLINGER CANYON RD  
Site City: SAN RAMON  
Site Zip: 94583  
Enf Action Date: 03-21-2019  
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: Contra Costa County Health Services Department  
Enf Action Program: APSA  
Enf Action Source: CERS

Site ID: 401383  
Site Name: SAN RAMON VALLEY FIRE STA #38  
Site Address: 1600 BOLLINGER CANYON RD  
Site City: SAN RAMON  
Site Zip: 94583  
Enf Action Date: 04-14-2017  
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: Contra Costa County Health Services Department  
Enf Action Program: HMRRP  
Enf Action Source: CERS

Site ID: 401383  
Site Name: SAN RAMON VALLEY FIRE STA #38  
Site Address: 1600 BOLLINGER CANYON RD  
Site City: SAN RAMON  
Site Zip: 94583  
Enf Action Date: 05-09-2016  
Enf Action Type: Notice of Violation (Unified Program)  
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection  
Enf Action Notes: Not reported  
Enf Action Division: Contra Costa County Health Services Department  
Enf Action Program: HMRRP  
Enf Action Source: CERS

**Coordinates:**

Site ID: 401383  
Facility Name: SAN RAMON VALLEY FIRE STA #38  
Env Int Type Code: APSA  
Program ID: 10011841  
Coord Name: Not reported  
Ref Point Type Desc: Unknown  
Latitude: 37.771458  
Longitude: -121.995236



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN RAMON VALLEY FIRE STA #38 (Continued)**

**S106176236**

Affiliation:

Affiliation Type Desc: Legal Owner  
Entity Name: San Ramon Valley Fire Protection District  
Entity Title: Not reported  
Affiliation Address: 1500 Bollinger Canyon Road  
Affiliation City: San Ramon  
Affiliation State: CA  
Affiliation Country: United States  
Affiliation Zip: 94583  
Affiliation Phone: (925) 838-6680

Affiliation Type Desc: CUPA District  
Entity Name: Contra Costa County Health Services Department  
Entity Title: Not reported  
Affiliation Address: 4585 Pacheco Blvd Suite 100  
Affiliation City: Martinez  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94553  
Affiliation Phone: (925) 655-3200

Affiliation Type Desc: Operator  
Entity Name: San Ramon Valley Fire Protection District  
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: (925) 838-6600

Affiliation Type Desc: Property Owner  
Entity Name: San Ramon Valley Fire Protection District  
Entity Title: Not reported  
Affiliation Address: 1500 Bollinger Canyon Road  
Affiliation City: San Ramon  
Affiliation State: CA  
Affiliation Country: United States  
Affiliation Zip: 94583  
Affiliation Phone: (925) 838-6600

Affiliation Type Desc: Document Preparer  
Entity Name: Jim Selover  
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: Not reported

Affiliation Type Desc: Facility Mailing Address  
Entity Name: Mailing Address  
Entity Title: Not reported  
Affiliation Address: 1500 Bollinger Canyon Road  
Affiliation City: San Ramon  
Affiliation State: CA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN RAMON VALLEY FIRE STA #38 (Continued)**

**S106176236**

Affiliation Country: Not reported  
Affiliation Zip: 94583  
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer  
Entity Name: Jim Selover  
Entity Title: Battalion Chief  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact  
Entity Name: Jim Selover  
Entity Title: Not reported  
Affiliation Address: 1500 Bollinger Canyon Road  
Affiliation City: San Ramon  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 94583  
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation  
Entity Name: SAN RAMON VALLEY FIRE STA #38  
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: Not reported

D11  
ENE  
< 1/8  
0.123 mi.  
650 ft.

**JOHN MUIR MEDICAL CENTER**  
**205 PORTER DR**  
**SAN RAMON, CA 94583**  
**Site 1 of 5 in cluster D**

UST U003784274  
CONTRA COSTA CO. SITE LIST N/A

Relative:  
Higher  
Actual:  
643 ft.

UST:  
Name: JOHN MUIR MEDICAL CENTER  
Address: 205 PORTER DR  
City,State,Zip: SAN RAMON, CA 94583  
Facility ID: 770063  
Permitting Agency: CONTRA COSTA COUNTY  
Latitude: 37.77472  
Longitude: -121.99153

CONTRA COSTA CO. SITE LIST:

Name: JOHN MUIR MEDICAL CENTER  
Address: 205 PORTER DR  
City: SAN RAMON  
Facility ID: FA0032618  
Billing Status: INACTIVE, NON-BILLABLE  
Program Status: CONTRA COSTA CO. SITE LIST

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**JOHN MUIR MEDICAL CENTER (Continued)**

**U003784274**

Program/Elements: UNDERGROUND STORAGE TANK SITE  
 Region: CONTRA COSTA  
 Cupa Number: 770063  
 CERS ID: 10008379

**D12**  
**ENE**  
 < 1/8  
 0.123 mi.  
 650 ft.

**JOHN MUIR EMERGI-CENTER**  
**205 PORTER DR**  
**SAN RAMON, CA 94598**

**SWEEPS UST** **S103953149**  
**N/A**

**Site 2 of 5 in cluster D**

**Relative:**  
**Higher**

**SWEEPS UST:**  
 Name: JOHN MUIR EMERGI-CENTER  
 Address: 205 PORTER DR  
 City: SAN RAMON  
 Status: Active  
 Comp Number: 70063  
 Number: 9  
 Board Of Equalization: 44-002171  
 Referral Date: 06-20-88  
 Action Date: Not reported  
 Created Date: 07-22-88  
 Owner Tank Id: Not reported  
 SWRCB Tank Id: 07-000-070063-000001  
 Tank Status: A  
 Capacity: 1000  
 Active Date: 06-20-88  
 Tank Use: M.V. FUEL  
 STG: P  
 Content: DIESEL  
 Number Of Tanks: 1

**Actual:**  
**643 ft.**

**D13**  
**East**  
 1/8-1/4  
 0.142 mi.  
 752 ft.

**JOHN MUIR PHYSICIAN NETWORK**  
**200 PORTER DRIVE SUITE 300**  
**SAN RAMON, CA 94583**

**RCRA NonGen / NLR** **1025870129**  
**CAL000421228**

**Site 3 of 5 in cluster D**

**Relative:**  
**Lower**

**RCRA NonGen / NLR:**  
 Date Form Received by Agency: 2016-10-17 00:00:00.0  
 Handler Name: JOHN MUIR PHYSICIAN NETWORK  
 Handler Address: 200 PORTER DRIVE SUITE 300  
 Handler City,State,Zip: SAN RAMON, CA 94583  
 EPA ID: CAL000421228  
 Contact Name: HEATHER TRUSLER  
 Contact Address: 200 PORTER DRIVE SUITE 300  
 Contact City,State,Zip: SAN RAMON, CA 94583  
 Contact Telephone: 925-988-7505  
 Contact Fax: Not reported  
 Contact Email: HEATHER.TRUSLER@JOHNMUIRHEALTH.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

**Actual:**  
**620 ft.**

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**JOHN MUIR PHYSICIAN NETWORK (Continued)**

**1025870129**

Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	1450 TREAT BLVD SUITE 350
Mailing City, State, Zip:	WALNUT CREEK, CA 94597
Owner Name:	JOHN MUIR PHYSICIAN NETWORK
Owner Type:	Other
Operator Name:	HEATHER TRUSLER
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:	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 Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JOHN MUIR PHYSICIAN NETWORK (Continued)**

**1025870129**

Handler Date of Last Change: 2019-06-28 17:07:13.0  
Recognized Trader-Importer: No  
Recognized Trader-Exporter: No  
Importer of Spent Lead Acid Batteries: No  
Exporter of Spent Lead Acid Batteries: No  
Recycler Activity Without Storage: No  
Manifest Broker: No  
Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator: Owner  
Owner/Operator Name: JOHN MUIR PHYSICIAN NETWORK  
Legal Status: Other  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 1450 TREAT BLVD SUITE 350  
Owner/Operator City,State,Zip: WALNUT CREEK, CA 94597  
Owner/Operator Telephone: 925-952-2824  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: HEATHER TRUSLER  
Legal Status: Other  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 200 PORTER DRIVE SUITE 300  
Owner/Operator City,State,Zip: SAN RAMON, CA 94583  
Owner/Operator Telephone: 925-988-7505  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 2016-10-17 00:00:00.0  
Handler Name: JOHN MUIR PHYSICIAN NETWORK  
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: 621493  
NAICS Description: FREESTANDING AMBULATORY SURGICAL AND EMERGENCY CENTERS

Facility Has Received Notices of Violations:

Violations: No Violations Found

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JOHN MUIR PHYSICIAN NETWORK (Continued)**

**1025870129**

Evaluation Action Summary:  
Evaluations:

No Evaluations Found

**D14**  
**East**  
**1/8-1/4**  
**0.142 mi.**  
**752 ft.**

**JOHN MUIR PHYSICIAN NETWORK - FP/IM/PEDS**  
**200 PORTER DR 300**  
**SAN RAMON, CA 94583**

**CERS HAZ WASTE**  
**CONTRA COSTA CO. SITE LIST**  
**CERS**

**S124446927**  
**N/A**

**Site 4 of 5 in cluster D**

**Relative:**  
**Lower**  
**Actual:**  
**620 ft.**

**CERS HAZ WASTE:**

Name: JOHN MUIR PHYSICIAN NETWORK - FP/IM/PEDS  
Address: 200 PORTER DR STE 300  
City,State,Zip: SAN RAMON, CA 94583  
Site ID: 551265  
CERS ID: 10821745  
CERS Description: Hazardous Waste Generator

**CONTRA COSTA CO. SITE LIST:**

Name: JOHN MUIR PHYSICIAN NETWORK - FP/IM/PEDS  
Address: 200 PORTER DR 300  
City: SAN RAMON  
Facility ID: FA0043406  
Billing Status: ACTIVE, BILLABLE  
Program Status: CONTRA COSTA CO. SITE LIST  
Program/Elements: HWG: REPORTED ZERO  
Region: CONTRA COSTA  
Cupa Number: 776545  
CERS ID: 10821745

Name: WEBSTER OUTPATIENT SURGERY CENTER  
Address: 200 PORTER DR 100  
City: SAN RAMON  
Facility ID: FA0043823  
Billing Status: ACTIVE, BILLABLE  
Program Status: CONTRA COSTA CO. SITE LIST  
Program/Elements: HMBP: LESS THAN 1000 LBS  
Region: CONTRA COSTA  
Cupa Number: 776686  
CERS ID: 10829083

**CERS:**

Name: WEBSTER OUTPATIENT SURGERY CENTER  
Address: 200 PORTER DR STE 100  
City,State,Zip: SAN RAMON, CA 94583  
Site ID: 560487  
CERS ID: 10829083  
CERS Description: Chemical Storage Facilities

**Affiliation:**

Affiliation Type Desc: Document Preparer  
Entity Name: sandy luong  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JOHN MUIR PHYSICIAN NETWORK - FP/IM/PEDS (Continued)**

**S124446927**

Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Webster Outpatient Surgery Center
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:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Craig Hammer
Entity Title:	Not reported
Affiliation Address:	2055 CANYON LAKES DR
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94582
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	200 PORTER DRIVE, STE 100
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94583
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	sandy luong
Entity Title:	Office Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Webster Outpatient Surgery
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:	(925) 600-1900
Affiliation Type Desc:	CUPA District
Entity Name:	Contra Costa County Health Services Department
Entity Title:	Not reported
Affiliation Address:	4585 Pacheco BlvdSuite 100

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**JOHN MUIR PHYSICIAN NETWORK - FP/IM/PEDS (Continued)**

**S124446927**

Affiliation City: Martinez  
 Affiliation State: CA  
 Affiliation Country: Not reported  
 Affiliation Zip: 94553  
 Affiliation Phone: (925) 655-3200

Affiliation Type Desc: Legal Owner  
 Entity Name: Webster Outpatient Surgery Center  
 Entity Title: Not reported  
 Affiliation Address: 2055 CANYON LAKES DR  
 Affiliation City: SAN RAMON  
 Affiliation State: CA  
 Affiliation Country: United States  
 Affiliation Zip: 94582  
 Affiliation Phone: (925) 600-1900

**D15**  
**East**  
**1/8-1/4**  
**0.142 mi.**  
**752 ft.**

**JOHN MUIR PHYSICIAN NETWORK FP/IM/PEDS**  
**200 PORTER DR STE 300**  
**SAN RAMON, CA 94583**  
**Site 5 of 5 in cluster D**

**RCRA NonGen / NLR 1025873458**  
**CAL000446584**

**Relative:**  
**Lower**  
**Actual:**  
**620 ft.**

RCRA NonGen / NLR:  
 Date Form Received by Agency: 2019-06-11 00:00:00.0  
 Handler Name: JOHN MUIR PHYSICIAN NETWORK FP/IM/PEDS  
 Handler Address: 200 PORTER DR STE 300  
 Handler City,State,Zip: SAN RAMON, CA 94583  
 EPA ID: CAL000446584  
 Contact Name: HEATHER TRUSLER  
 Contact Address: 1220 ROSSMOOR PKWY  
 Contact City,State,Zip: WALNUT CREEK, CA 94595  
 Contact Telephone: 925-988-7505  
 Contact Fax: 925-988-7599  
 Contact Email: HEATHER.TRUSLER@JOHNMUIRHEALTH.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: 1450 TREAT BLVD #350  
 Mailing City,State,Zip: WALNUT CREEK, CA 94597  
 Owner Name: JOHN MUIR PHYSICIAN NETWORK  
 Owner Type: Other  
 Operator Name: HEATHER TRUSLER  
 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: Yes  
 Small Quantity On-Site Burner Exemption: No



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**JOHN MUIR PHYSICIAN NETWORK FP/IM/PEDS (Continued)**

**1025873458**

Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRC Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-06-28 17:32:15.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	JOHN MUIR PHYSICIAN NETWORK
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1450 TREAT BLVD #350

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**JOHN MUIR PHYSICIAN NETWORK FP/IM/PEDS (Continued)**

**1025873458**

Owner/Operator City,State,Zip: WALNUT CREEK, CA 94597  
 Owner/Operator Telephone: 925-988-7505  
 Owner/Operator Telephone Ext: Not reported  
 Owner/Operator Fax: Not reported  
 Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
 Owner/Operator Name: HEATHER TRUSLER  
 Legal Status: Other  
 Date Became Current: Not reported  
 Date Ended Current: Not reported  
 Owner/Operator Address: 1220 ROSSMOOR PKWY  
 Owner/Operator City,State,Zip: WALNUT CREEK, CA 94595  
 Owner/Operator Telephone: 925-988-7505  
 Owner/Operator Telephone Ext: Not reported  
 Owner/Operator Fax: Not reported  
 Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 2019-06-11 00:00:00.0  
 Handler Name: JOHN MUIR PHYSICIAN NETWORK FP/IM/PEDS  
 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: 621493  
 NAICS Description: FREESTANDING AMBULATORY SURGICAL AND EMERGENCY CENTERS

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

16  
 NW  
 1/8-1/4  
 0.151 mi.  
 799 ft.

**MAST RANCH**  
**18895 BOLLINGER CANYON RD**  
**SAN RAMON, CA 94583**

**SWEEPS UST** U001598590  
**HIST UST** N/A  
**CONTRA COSTA CO. SITE LIST**

**Relative:**  
**Lower**  
**Actual:**  
**622 ft.**

SWEEPS UST:  
 Name: MAST RANCH  
 Address: 18895 BOLLINGER CANYON RD  
 City: SAN RAMON  
 Status: Not reported  
 Comp Number: 46071  
 Number: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAST RANCH (Continued)**

**U001598590**

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: 07-000-046071-000001  
Tank Status: Not reported  
Capacity: 550  
Active Date: Not reported  
Tank Use: M.V. FUEL  
STG: PRODUCT  
Content: REG UNLEADED  
Number Of Tanks: 1

**HIST UST:**

Name: MAST RANCH  
Address: 18895 BOLLINGER CANYON RD  
City,State,Zip: SAN RAMON, CA 94583  
File Number: 00022E93  
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00022E93.pdf>  
Region: STATE  
Facility ID: 00000046071  
Facility Type: Other  
Other Type: RANCH  
Contact Name: RODGER H. MAST  
Telephone: 4158374487  
Owner Name: RODGER H. MAST  
Owner Address: 18885 BOLLINGER CANYON RD.  
Owner City,St,Zip: SAN RAMON, CA 94583  
Total Tanks: 0001  
  
Tank Num: 001  
Container Num: ONE  
Year Installed: Not reported  
Tank Capacity: 00000550  
Tank Used for: PRODUCT  
Type of Fuel: PREMIUM  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

**CONTRA COSTA CO. SITE LIST:**

Name: MAST RANCH  
Address: 18895 BOLLINGER CANYON RD  
City: SAN RAMON  
Facility ID: FA0032309  
Billing Status: INACTIVE, NON-BILLABLE  
Program Status: CONTRA COSTA CO. SITE LIST  
Program/Elements: UNDERGROUND STORAGE TANK SITE  
Region: CONTRA COSTA  
Cupa Number: 746071  
CERS ID: 10007452

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**E17**      **INDEPENDENT HOLDINGS LLC**  
**ESE**      **100 PARK PLACE**  
**1/8-1/4**   **SAN RAMON, CA 94583**  
**0.213 mi.**  
**1127 ft.**   **Site 1 of 2 in cluster E**

**EMI**   **S124440523**  
**CONTRA COSTA CO. SITE LIST**  
**CERS**      **N/A**

**Relative:**  
**Lower**  
  
**Actual:**  
**560 ft.**

**EMI:**  
 Name: INDEPENDENT HOLDINGS LLC  
 Address: 100 PARK PLACE  
 City,State,Zip: SAN RAMON, CA 94583  
 Year: 2018  
 County Code: 7  
 Air Basin: SF  
 Facility ID: 22071  
 Air District Name: BA  
 SIC Code: 8062  
 Air District Name: BAY AREA AQMD  
 Community Health Air Pollution Info System: Not reported  
 Consolidated Emission Reporting Rule: Not reported  
 Total Organic Hydrocarbon Gases Tons/Yr: 2.3743e-005  
 Reactive Organic Gases Tons/Yr: 2.08582255e-005  
 Carbon Monoxide Emissions Tons/Yr: 6.3092e-005  
 NOX - Oxides of Nitrogen Tons/Yr: 0.000403788  
 SOX - Oxides of Sulphur Tons/Yr: 9.29e-007  
 Particulate Matter Tons/Yr: 8.5311871227e-006  
 Part. Matter 10 Micrometers and Smllr Tons/Yr:8.48e-006

**CONTRA COSTA CO. SITE LIST:**

Name: INDEPENDENT HOLDINGS, LLC  
 Address: 100 PARK PL  
 City: SAN RAMON  
 Facility ID: FA0043229  
 Billing Status: ACTIVE, BILLABLE  
 Program Status: CONTRA COSTA CO. SITE LIST  
 Program/Elements: HMBP GENERAL  
 Region: CONTRA COSTA  
 Cupa Number: 776497  
 CERS ID: 10807738

**CERS:**

Name: INDEPENDENT HOLDINGS, LLC  
 Address: 100 PARK PL  
 City,State,Zip: SAN RAMON, CA 94583  
 Site ID: 547739  
 CERS ID: 10807738  
 CERS Description: Chemical Storage Facilities

**Coordinates:**

Site ID: 547739  
 Facility Name: Independent Holdings, LLC  
 Env Int Type Code: HMBP  
 Program ID: 10807738  
 Coord Name: Not reported  
 Ref Point Type Desc: Center of a facility or station.  
 Latitude: 37.772700  
 Longitude: -121.989560

Affiliation:

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**INDEPENDENT HOLDINGS LLC (Continued)**

**S124440523**

Affiliation Type Desc: CUPA District  
 Entity Name: Contra Costa County Health Services Department  
 Entity Title: Not reported  
 Affiliation Address: 4585 Pacheco Blvd Suite 100  
 Affiliation City: Martinez  
 Affiliation State: CA  
 Affiliation Country: Not reported  
 Affiliation Zip: 94553  
 Affiliation Phone: (925) 655-3200

Affiliation Type Desc: Parent Corporation  
 Entity Name: Independent Holdings, 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: Not reported

**E18**  
**ESE**  
 1/8-1/4  
 0.213 mi.  
 1127 ft.

**PARK PLACE MEDICAL BUILDING LLC**  
**100 PARK PLACE**  
**SAN RAMON, CA 94583**

**CONTRA COSTA CO. SITE LIST**

**EMI S117047857**  
**N/A**

**Site 2 of 2 in cluster E**

**Relative:**  
**Lower**  
**Actual:**  
**560 ft.**

EMI:  
 Name: PARK PLACE MEDICAL BUILDING LLC  
 Address: 100 PARK PLACE  
 City,State,Zip: SAN RAMON, CA 94583  
 Year: 2014  
 County Code: 7  
 Air Basin: SF  
 Facility ID: 22071  
 Air District Name: BA  
 SIC Code: 8062  
 Air District Name: BAY AREA AQMD  
 Community Health Air Pollution Info System: Not reported  
 Consolidated Emission Reporting Rule: Not reported  
 Total Organic Hydrocarbon Gases Tons/Yr: 2.354e-005  
 Reactive Organic Gases Tons/Yr: 0  
 Carbon Monoxide Emissions Tons/Yr: 6.3109e-005  
 NOX - Oxides of Nitrogen Tons/Yr: 0.000404565  
 SOX - Oxides of Sulphur Tons/Yr: 8.16e-007  
 Particulate Matter Tons/Yr: 9.33e-006  
 Part. Matter 10 Micrometers and Smlr Tons/Yr: 8.957e-006

Name: PARK PLACE MEDICAL BUILDING LLC  
 Address: 100 PARK PLACE  
 City,State,Zip: SAN RAMON, CA 94583  
 Year: 2015  
 County Code: 7  
 Air Basin: SF  
 Facility ID: 22071  
 Air District Name: BA  
 SIC Code: 8062  
 Air District Name: BAY AREA AQMD

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PARK PLACE MEDICAL BUILDING LLC (Continued)**

**S117047857**

Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2.354e-005  
Reactive Organic Gases Tons/Yr: 2.0195e-005  
Carbon Monoxide Emissions Tons/Yr: 6.3109e-005  
NOX - Oxides of Nitrogen Tons/Yr: 0.000404565  
SOX - Oxides of Sulphur Tons/Yr: 8.16e-007  
Particulate Matter Tons/Yr: 9.33e-006  
Part. Matter 10 Micrometers and Smlr Tons/Yr:8.957e-006

Name: PARK PLACE MEDICAL BUILDING LLC  
Address: 100 PARK PLACE  
City,State,Zip: SAN RAMON, CA 94583  
Year: 2016  
County Code: 7  
Air Basin: SF  
Facility ID: 22071  
Air District Name: BA  
SIC Code: 8062  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 2.354e-005  
Reactive Organic Gases Tons/Yr: 2.067989e-005  
Carbon Monoxide Emissions Tons/Yr: 6.3109e-005  
NOX - Oxides of Nitrogen Tons/Yr: 0.000404565  
SOX - Oxides of Sulphur Tons/Yr: 8.16e-007  
Particulate Matter Tons/Yr: 9.33e-006  
Part. Matter 10 Micrometers and Smlr Tons/Yr:8.957e-006

**CONTRA COSTA CO. SITE LIST:**

Name: REPRODUCTIVE SCIENCE CENTER OF SF BAY  
Address: 100 PARK PL 200  
City: SAN RAMON  
Facility ID: FA0035142  
Billing Status: ACTIVE, BILLABLE  
Program Status: CONTRA COSTA CO. SITE LIST  
Program/Elements: HMBP: 1K-10K LBS, 20+ EMPLOYEES  
Region: CONTRA COSTA  
Cupa Number: 774804  
CERS ID: 10484611

**F19**  
**SSE**  
**1/8-1/4**  
**0.235 mi.**  
**1242 ft.**

**DON WINSLOW**  
**2504 FOUNTAINHEAD DR**  
**SAN RAMON, CA 94583**  
**Site 1 of 2 in cluster F**

**RCRA NonGen / NLR 1026042663**  
**CAC003048853**

**Relative:**  
**Lower**  
**Actual:**  
**583 ft.**

RCRA NonGen / NLR:  
Date Form Received by Agency: 2019-12-30 00:00:00.0  
Handler Name: DON WINSLOW  
Handler Address: 2504 FOUNTAINHEAD DR  
SAN RAMON, CA 94583  
EPA ID: CAC003048853  
Contact Name: DON WINSLOW  
Contact Address: 2504 FOUNTAINHEAD DR  
SAN RAMON, CA 94583

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DON WINSLOW (Continued)**

**1026042663**

Contact Telephone:	925-216-9786
Contact Fax:	Not reported
Contact Email:	MELISA@ENV-REM.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	2504 FOUNTAINHEAD DR
Mailing City, State, Zip:	SAN RAMON, CA 94583
Owner Name:	DON WINSLOW
Owner Type:	Other
Operator Name:	DON WINSLOW
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:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DON WINSLOW (Continued)**

**1026042663**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-02-10 17:51:54.0
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:	DON WINSLOW
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2504 FOUNTAINHEAD DR
Owner/Operator City,State,Zip:	SAN RAMON, CA 94583
Owner/Operator Telephone:	925-216-9786
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	DON WINSLOW
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2504 FOUNTAINHEAD DR
Owner/Operator City,State,Zip:	SAN RAMON, CA 94583
Owner/Operator Telephone:	925-216-9786
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2019-12-30 00:00:00.0
Handler Name:	DON WINSLOW
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



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DON WINSLOW (Continued)**

**1026042663**

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

**F20**  
**SSE**  
**1/8-1/4**  
**0.238 mi.**  
**1255 ft.**

**JOHN ALBERTI**  
**2500 FOUNTAINHEAD DR**  
**SAN RAMON, CA 94583**

**RCRA NonGen / NLR**

**1026045189**  
**CAC003051563**

**Site 2 of 2 in cluster F**

**Relative:**  
**Lower**  
**Actual:**  
**581 ft.**

RCRA NonGen / NLR:  
 Date Form Received by Agency: 2020-01-17 00:00:00.0  
 Handler Name: JOHN ALBERTI  
 Handler Address: 2500 FOUNTAINHEAD DR  
 Handler City,State,Zip: SAN RAMON, CA 94583  
 EPA ID: CAC003051563  
 Contact Name: JOHN ALBERTI  
 Contact Address: 2500 FOUNTAINHEAD DR  
 Contact City,State,Zip: SAN RAMON, CA 94583  
 Contact Telephone: 925-718-5400  
 Contact Fax: Not reported  
 Contact Email: RUTH.DELGADILLO@SYNERGYCOMPANIES.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: Not reported  
 State District Owner: Not reported  
 State District: Not reported  
 Mailing Address: 2500 FOUNTAINHEAD DR  
 Mailing City,State,Zip: SAN RAMON, CA 94583  
 Owner Name: JOHN ALBERTI  
 Owner Type: Other  
 Operator Name: JOHN ALBERTI  
 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

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**JOHN ALBERTI (Continued)**

**1026045189**

Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-02-10 17:52:46.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	JOHN ALBERTI
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2500 FOUNTAINHEAD DR
Owner/Operator City,State,Zip:	SAN RAMON, CA 94583
Owner/Operator Telephone:	925-718-5400

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JOHN ALBERTI (Continued)**

**1026045189**

Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	JOHN ALBERTI
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2500 FOUNTAINHEAD DR
Owner/Operator City,State,Zip:	SAN RAMON, CA 94583
Owner/Operator Telephone:	925-718-5400
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2020-01-17 00:00:00.0
Handler Name:	JOHN ALBERTI
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
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Evaluation Action Summary:

Evaluations:	No Evaluations Found
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Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NO SITES FOUND					

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

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

#### NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/27/2021	Source: EPA
Date Data Arrived at EDR: 05/03/2021	Telephone: N/A
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 08/04/2021
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/11/2021
	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: 04/27/2021	Source: EPA
Date Data Arrived at EDR: 05/03/2021	Telephone: N/A
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 08/04/2021
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: Quarterly

#### NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991  
Date Data Arrived at EDR: 02/02/1994  
Date Made Active in Reports: 03/30/1994  
Number of Days to Update: 56

Source: EPA  
Telephone: 202-564-4267  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

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

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/27/2021  
Date Data Arrived at EDR: 05/03/2021  
Date Made Active in Reports: 05/19/2021  
Number of Days to Update: 16

Source: EPA  
Telephone: N/A  
Last EDR Contact: 08/04/2021  
Next Scheduled EDR Contact: 10/11/2021  
Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 02/22/2021  
Date Data Arrived at EDR: 03/30/2021  
Date Made Active in Reports: 06/17/2021  
Number of Days to Update: 79

Source: Environmental Protection Agency  
Telephone: 703-603-8704  
Last EDR Contact: 06/23/2021  
Next Scheduled EDR Contact: 10/11/2021  
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: 04/27/2021  
Date Data Arrived at EDR: 05/03/2021  
Date Made Active in Reports: 05/19/2021  
Number of Days to Update: 16

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 08/04/2021  
Next Scheduled EDR Contact: 10/25/2021  
Data Release Frequency: Quarterly

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

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/27/2021	Source: EPA
Date Data Arrived at EDR: 05/03/2021	Telephone: 800-424-9346
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 08/04/2021
Number of Days to Update: 16	Next Scheduled EDR Contact: 10/25/2021
	Data Release Frequency: Quarterly

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

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/22/2021	Source: EPA
Date Data Arrived at EDR: 03/23/2021	Telephone: 800-424-9346
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

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

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: (415) 495-8895
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

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

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: (415) 495-8895
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/04/2021
	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: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: (415) 495-8895
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/04/2021
	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: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: (415) 495-8895
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/04/2021
	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: 05/10/2021	Source: Department of the Navy
Date Data Arrived at EDR: 05/13/2021	Telephone: 843-820-7326
Date Made Active in Reports: 08/03/2021	Last EDR Contact: 08/05/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 11/22/2021
	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: 02/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/23/2021	Telephone: 703-603-0695
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 05/21/2021
Number of Days to Update: 85	Next Scheduled EDR Contact: 09/06/2021
	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: 02/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/23/2021	Telephone: 703-603-0695
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 05/21/2021
Number of Days to Update: 85	Next Scheduled EDR Contact: 09/06/2021
	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: 03/22/2021

Date Data Arrived at EDR: 03/24/2021

Date Made Active in Reports: 06/17/2021

Number of Days to Update: 85

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 06/17/2021

Next Scheduled EDR Contact: 10/04/2021

Data Release Frequency: Quarterly

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

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity.

These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 04/23/2021

Date Data Arrived at EDR: 04/23/2021

Date Made Active in Reports: 07/12/2021

Number of Days to Update: 80

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Last EDR Contact: 07/22/2021

Next Scheduled EDR Contact: 11/08/2021

Data Release Frequency: Quarterly

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

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 04/23/2021

Date Data Arrived at EDR: 04/23/2021

Date Made Active in Reports: 07/12/2021

Number of Days to Update: 80

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Last EDR Contact: 07/22/2021

Next Scheduled EDR Contact: 11/08/2021

Data Release Frequency: Quarterly

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

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/10/2021

Date Data Arrived at EDR: 05/11/2021

Date Made Active in Reports: 07/27/2021

Number of Days to Update: 77

Source: Department of Resources Recycling and Recovery

Telephone: 916-341-6320

Last EDR Contact: 05/11/2021

Next Scheduled EDR Contact: 08/23/2021

Data Release Frequency: Quarterly

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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	Source: California Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 07/22/2008	Telephone: 916-464-4834
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 07/01/2011
Number of Days to Update: 9	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: No Update Planned

## LUST REG 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 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-622-2433
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 09/19/2011
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: No Update Planned

## LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-570-3769
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/01/2011
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

## LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005	Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Date Data Arrived at EDR: 06/07/2005	Telephone: 760-241-7365
Date Made Active in Reports: 06/29/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

## LUST 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

# 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: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/09/2021	Telephone: see region list
Date Made Active in Reports: 03/30/2021	Last EDR Contact: 06/03/2021
Number of Days to Update: 21	Next Scheduled EDR Contact: 09/20/2021
	Data Release Frequency: Quarterly

## 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

## INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/08/2020	Source: EPA Region 6
Date Data Arrived at EDR: 05/20/2020	Telephone: 214-665-6597
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 06/11/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

## INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/01/2020  
Date Data Arrived at EDR: 12/16/2020  
Date Made Active in Reports: 03/12/2021  
Number of Days to Update: 86

Source: EPA Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 06/11/2021  
Next Scheduled EDR Contact: 11/01/2021  
Data Release Frequency: Varies

**INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land**  
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/30/2020  
Date Data Arrived at EDR: 12/22/2020  
Date Made Active in Reports: 03/12/2021  
Number of Days to Update: 80

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 06/11/2021  
Next Scheduled EDR Contact: 11/01/2021  
Data Release Frequency: Varies

**INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land**  
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/02/2020  
Date Data Arrived at EDR: 12/18/2020  
Date Made Active in Reports: 03/12/2021  
Number of Days to Update: 84

Source: EPA Region 4  
Telephone: 404-562-8677  
Last EDR Contact: 06/17/2021  
Next Scheduled EDR Contact: 11/01/2021  
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: 11/12/2020  
Date Data Arrived at EDR: 12/16/2020  
Date Made Active in Reports: 03/12/2021  
Number of Days to Update: 86

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 06/11/2021  
Next Scheduled EDR Contact: 11/01/2021  
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: 10/07/2020  
Date Data Arrived at EDR: 12/16/2020  
Date Made Active in Reports: 03/12/2021  
Number of Days to Update: 86

Source: EPA, Region 5  
Telephone: 312-886-7439  
Last EDR Contact: 06/11/2021  
Next Scheduled EDR Contact: 11/01/2021  
Data Release Frequency: Varies

**INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land**  
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/09/2020  
Date Data Arrived at EDR: 12/16/2020  
Date Made Active in Reports: 03/12/2021  
Number of Days to Update: 86

Source: EPA Region 8  
Telephone: 303-312-6271  
Last EDR Contact: 06/11/2021  
Next Scheduled EDR Contact: 11/01/2021  
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: 10/01/2020  
Date Data Arrived at EDR: 12/16/2020  
Date Made Active in Reports: 03/12/2021  
Number of Days to Update: 86

Source: Environmental Protection Agency  
Telephone: 415-972-3372  
Last EDR Contact: 06/11/2021  
Next Scheduled EDR Contact: 11/01/2021  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/09/2021	Telephone: 866-480-1028
Date Made Active in Reports: 03/30/2021	Last EDR Contact: 06/03/2021
Number of Days to Update: 21	Next Scheduled EDR Contact: 09/20/2021
	Data Release Frequency: Varies

## SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 08/01/2011
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/14/2011
	Data Release Frequency: No Update Planned

## SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 09/19/2011
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: No Update Planned

## SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 07/18/2011
Number of Days to Update: 28	Next Scheduled EDR Contact: 10/31/2011
	Data Release Frequency: No Update Planned

## SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004	Source: Region Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 11/18/2004	Telephone: 213-576-6600
Date Made Active in Reports: 01/04/2005	Last EDR Contact: 07/01/2011
Number of Days to Update: 47	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: No Update Planned

## SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005	Source: Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 04/05/2005	Telephone: 916-464-3291
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 16	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005  
Date Data Arrived at EDR: 05/25/2005  
Date Made Active in Reports: 06/16/2005  
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch  
Telephone: 619-241-6583  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

## SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004  
Date Data Arrived at EDR: 09/07/2004  
Date Made Active in Reports: 10/12/2004  
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region  
Telephone: 530-542-5574  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

## SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004  
Date Data Arrived at EDR: 11/29/2004  
Date Made Active in Reports: 01/04/2005  
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region  
Telephone: 760-346-7491  
Last EDR Contact: 08/01/2011  
Next Scheduled EDR Contact: 11/14/2011  
Data Release Frequency: No Update Planned

## SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008  
Date Data Arrived at EDR: 04/03/2008  
Date Made Active in Reports: 04/14/2008  
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)  
Telephone: 951-782-3298  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: No Update Planned

## SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007  
Date Data Arrived at EDR: 09/11/2007  
Date Made Active in Reports: 09/28/2007  
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)  
Telephone: 858-467-2980  
Last EDR Contact: 08/08/2011  
Next Scheduled EDR Contact: 11/21/2011  
Data Release Frequency: No Update Planned

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

### FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/29/2021  
Date Data Arrived at EDR: 02/17/2021  
Date Made Active in Reports: 03/22/2021  
Number of Days to Update: 33

Source: FEMA  
Telephone: 202-646-5797  
Last EDR Contact: 06/29/2021  
Next Scheduled EDR Contact: 10/18/2021  
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: 03/05/2021	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/09/2021	Telephone: 916-327-7844
Date Made Active in Reports: 04/01/2021	Last EDR Contact: 06/04/2021
Number of Days to Update: 23	Next Scheduled EDR Contact: 09/20/2021
	Data Release Frequency: Varies

## UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/08/2021	Source: SWRCB
Date Data Arrived at EDR: 03/09/2021	Telephone: 916-341-5851
Date Made Active in Reports: 03/31/2021	Last EDR Contact: 06/03/2021
Number of Days to Update: 22	Next Scheduled EDR Contact: 09/20/2021
	Data Release Frequency: Semi-Annually

## MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 03/08/2021	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/09/2021	Telephone: 866-480-1028
Date Made Active in Reports: 03/30/2021	Last EDR Contact: 06/03/2021
Number of Days to Update: 21	Next Scheduled EDR Contact: 09/20/2021
	Data Release Frequency: Varies

## 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: 06/08/2021
Number of Days to Update: 69	Next Scheduled EDR Contact: 09/27/2021
	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: 10/02/2020	Source: EPA Region 4
Date Data Arrived at EDR: 12/18/2020	Telephone: 404-562-9424
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/17/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 11/01/2021
	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: 11/12/2020	Source: EPA Region 10
Date Data Arrived at EDR: 12/16/2020	Telephone: 206-553-2857
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/01/2021
	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: 10/01/2020	Source: EPA, Region 1
Date Data Arrived at EDR: 12/16/2020	Telephone: 617-918-1313
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

## INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/01/2020	Source: EPA Region 9
Date Data Arrived at EDR: 12/16/2020	Telephone: 415-972-3368
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/01/2021
	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: 09/30/2020	Source: EPA Region 7
Date Data Arrived at EDR: 12/22/2020	Telephone: 913-551-7003
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/01/2021
	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: 10/07/2020	Source: EPA Region 5
Date Data Arrived at EDR: 12/16/2020	Telephone: 312-886-6136
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/01/2021
	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: 04/08/2020	Source: EPA Region 6
Date Data Arrived at EDR: 05/20/2020	Telephone: 214-665-7591
Date Made Active in Reports: 08/12/2020	Last EDR Contact: 06/11/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

## INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/09/2020	Source: EPA Region 8
Date Data Arrived at EDR: 12/16/2020	Telephone: 303-312-6137
Date Made Active in Reports: 03/12/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **State and tribal voluntary cleanup sites**

### 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: 04/23/2021	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 04/23/2021	Telephone: 916-323-3400
Date Made Active in Reports: 07/12/2021	Last EDR Contact: 07/22/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/08/2021
	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	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 06/15/2021
Number of Days to Update: 142	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: No Update Planned

### 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: No Update Planned

## **State and tribal Brownfields sites**

### BROWNFIELDS: Considered Brownfields Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/22/2021	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/23/2021	Telephone: 916-323-7905
Date Made Active in Reports: 06/10/2021	Last EDR Contact: 06/17/2021
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/04/2021
	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: 03/15/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/16/2021	Telephone: 202-566-2777
Date Made Active in Reports: 06/10/2021	Last EDR Contact: 06/10/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 09/27/2021
	Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **Local Lists of Landfill / Solid Waste Disposal Sites**

### **WMUDS/SWAT: Waste Management Unit Database**

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 07/20/2021
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/08/2021
	Data Release Frequency: No Update Planned

### **SWRCY: Recycler Database**

A listing of recycling facilities in California.

Date of Government Version: 03/09/2021	Source: Department of Conservation
Date Data Arrived at EDR: 03/09/2021	Telephone: 916-323-3836
Date Made Active in Reports: 03/31/2021	Last EDR Contact: 06/04/2021
Number of Days to Update: 22	Next Scheduled EDR Contact: 09/20/2021
	Data Release Frequency: Quarterly

### **HAULERS: Registered Waste Tire Haulers Listing**

A listing of registered waste tire haulers.

Date of Government Version: 11/23/2020	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 11/23/2020	Telephone: 916-341-6422
Date Made Active in Reports: 02/08/2021	Last EDR Contact: 08/04/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 11/22/2021
	Data Release Frequency: Varies

### **INDIAN ODI: Report on the Status of Open Dumps on Indian Lands**

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 07/20/2021
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/08/2021
	Data Release Frequency: No Update Planned

### **ODI: Open Dump Inventory**

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### **DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations**

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 07/13/2021
Number of Days to Update: 137	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014	Source: Department of Health & Human Services, Indian Health Service
Date Data Arrived at EDR: 08/06/2014	Telephone: 301-443-1452
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 07/20/2021
Number of Days to Update: 176	Next Scheduled EDR Contact: 11/08/2021
	Data Release Frequency: Varies

## Local Lists of Hazardous waste / Contaminated Sites

### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/18/2021	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 05/18/2021	Telephone: 202-307-1000
Date Made Active in Reports: 08/03/2021	Last EDR Contact: 05/22/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 09/06/2021
	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: 04/23/2021	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 04/23/2021	Telephone: 916-323-3400
Date Made Active in Reports: 07/12/2021	Last EDR Contact: 07/22/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/08/2021
	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: 12/31/2019	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/20/2021	Telephone: 916-255-6504
Date Made Active in Reports: 04/08/2021	Last EDR Contact: 08/05/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: Varies

### CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/19/2021  
Date Data Arrived at EDR: 04/20/2021  
Date Made Active in Reports: 07/07/2021  
Number of Days to Update: 78

Source: CalEPA  
Telephone: 916-323-2514  
Last EDR Contact: 07/15/2021  
Next Scheduled EDR Contact: 11/01/2021  
Data Release Frequency: Quarterly

## TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995  
Date Data Arrived at EDR: 08/30/1995  
Date Made Active in Reports: 09/26/1995  
Number of Days to Update: 27

Source: State Water Resources Control Board  
Telephone: 916-227-4364  
Last EDR Contact: 01/26/2009  
Next Scheduled EDR Contact: 04/27/2009  
Data Release Frequency: No Update Planned

## US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/18/2021  
Date Data Arrived at EDR: 05/18/2021  
Date Made Active in Reports: 08/03/2021  
Number of Days to Update: 77

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 05/18/2021  
Next Scheduled EDR Contact: 09/06/2021  
Data Release Frequency: Quarterly

## PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 02/24/2021  
Date Data Arrived at EDR: 02/24/2021  
Date Made Active in Reports: 05/14/2021  
Number of Days to Update: 79

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 06/04/2021  
Next Scheduled EDR Contact: 09/20/2021  
Data Release Frequency: Varies

## **Local Lists of Registered Storage Tanks**

### SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994  
Date Data Arrived at EDR: 07/07/2005  
Date Made Active in Reports: 08/11/2005  
Number of Days to Update: 35

Source: State Water Resources Control Board  
Telephone: N/A  
Last EDR Contact: 06/03/2005  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### 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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 05/06/2021  
Date Data Arrived at EDR: 05/07/2021  
Date Made Active in Reports: 07/23/2021  
Number of Days to Update: 77

Source: San Francisco County Department of Public Health  
Telephone: 415-252-3896  
Last EDR Contact: 07/26/2021  
Next Scheduled EDR Contact: 11/14/2021  
Data Release Frequency: Varies

## CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 04/19/2021  
Date Data Arrived at EDR: 04/20/2021  
Date Made Active in Reports: 07/07/2021  
Number of Days to Update: 78

Source: California Environmental Protection Agency  
Telephone: 916-323-2514  
Last EDR Contact: 07/15/2021  
Next Scheduled EDR Contact: 11/01/2021  
Data Release Frequency: Quarterly

## CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994  
Date Data Arrived at EDR: 09/05/1995  
Date Made Active in Reports: 09/29/1995  
Number of Days to Update: 24

Source: California Environmental Protection Agency  
Telephone: 916-341-5851  
Last EDR Contact: 12/28/1998  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## **Local Land Records**

### LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/01/2021  
Date Data Arrived at EDR: 03/03/2021  
Date Made Active in Reports: 05/20/2021  
Number of Days to Update: 78

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 05/25/2021  
Next Scheduled EDR Contact: 09/13/2021  
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: 04/27/2021  
Date Data Arrived at EDR: 05/03/2021  
Date Made Active in Reports: 05/19/2021  
Number of Days to Update: 16

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 08/04/2021  
Next Scheduled EDR Contact: 10/11/2021  
Data Release Frequency: Semi-Annually

### DEED: Deed Restriction Listing

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 03/02/2021	Source: DTSC and SWRCB
Date Data Arrived at EDR: 03/03/2021	Telephone: 916-323-3400
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 05/28/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 09/13/2021
	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: 03/22/2021	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 03/24/2021	Telephone: 202-366-4555
Date Made Active in Reports: 06/17/2021	Last EDR Contact: 06/17/2021
Number of Days to Update: 85	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

### CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 04/04/2021	Source: Office of Emergency Services
Date Data Arrived at EDR: 04/20/2021	Telephone: 916-845-8400
Date Made Active in Reports: 07/07/2021	Last EDR Contact: 07/15/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 11/01/2021
	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: 03/08/2021	Source: State Water Quality Control Board
Date Data Arrived at EDR: 03/09/2021	Telephone: 866-480-1028
Date Made Active in Reports: 03/31/2021	Last EDR Contact: 06/03/2021
Number of Days to Update: 22	Next Scheduled EDR Contact: 09/20/2021
	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: 03/08/2021	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/09/2021	Telephone: 866-480-1028
Date Made Active in Reports: 03/31/2021	Last EDR Contact: 06/03/2021
Number of Days to Update: 22	Next Scheduled EDR Contact: 09/20/2021
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## Other Ascertainable Records

### RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: (415) 495-8895
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 06/21/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 02/11/2021	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 02/17/2021	Telephone: 202-528-4285
Date Made Active in Reports: 04/05/2021	Last EDR Contact: 05/18/2021
Number of Days to Update: 47	Next Scheduled EDR Contact: 08/30/2021
	Data Release Frequency: Varies

### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/13/2021
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/25/2021
	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	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 07/09/2021
Number of Days to Update: 574	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: N/A

### SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/2017  
Date Data Arrived at EDR: 02/03/2017  
Date Made Active in Reports: 04/07/2017  
Number of Days to Update: 63

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 05/18/2021  
Next Scheduled EDR Contact: 08/23/2021  
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: 03/22/2021  
Date Data Arrived at EDR: 03/23/2021  
Date Made Active in Reports: 06/17/2021  
Number of Days to Update: 86

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 06/21/2021  
Next Scheduled EDR Contact: 10/04/2021  
Data Release Frequency: Quarterly

## EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013  
Date Data Arrived at EDR: 03/21/2014  
Date Made Active in Reports: 06/17/2014  
Number of Days to Update: 88

Source: Environmental Protection Agency  
Telephone: 617-520-3000  
Last EDR Contact: 07/26/2021  
Next Scheduled EDR Contact: 11/15/2021  
Data Release Frequency: No Update Planned

## 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: 05/07/2021  
Next Scheduled EDR Contact: 08/16/2021  
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: 06/17/2021  
Next Scheduled EDR Contact: 09/27/2021  
Data Release Frequency: Every 4 Years

## TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2018  
Date Data Arrived at EDR: 08/14/2020  
Date Made Active in Reports: 11/04/2020  
Number of Days to Update: 82

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 05/17/2021  
Next Scheduled EDR Contact: 08/30/2021  
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: 04/19/2021  
Date Data Arrived at EDR: 04/20/2021  
Date Made Active in Reports: 07/16/2021  
Number of Days to Update: 87

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 07/19/2021  
Next Scheduled EDR Contact: 11/01/2021  
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: 04/27/2021  
Date Data Arrived at EDR: 05/03/2021  
Date Made Active in Reports: 05/19/2021  
Number of Days to Update: 16

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 08/04/2021  
Next Scheduled EDR Contact: 09/13/2021  
Data Release Frequency: Annually

## RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/07/2021  
Date Data Arrived at EDR: 05/13/2021  
Date Made Active in Reports: 08/03/2021  
Number of Days to Update: 82

Source: Environmental Protection Agency  
Telephone: 202-564-8600  
Last EDR Contact: 07/14/2021  
Next Scheduled EDR Contact: 11/01/2021  
Data Release Frequency: Varies

## RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995  
Date Data Arrived at EDR: 07/03/1995  
Date Made Active in Reports: 08/07/1995  
Number of Days to Update: 35

Source: EPA  
Telephone: 202-564-4104  
Last EDR Contact: 06/02/2008  
Next Scheduled EDR Contact: 09/01/2008  
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 12/30/2020	Source: EPA
Date Data Arrived at EDR: 01/14/2021	Telephone: 202-564-6023
Date Made Active in Reports: 03/05/2021	Last EDR Contact: 08/04/2021
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/15/2021
	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: 11/19/2020	Source: EPA
Date Data Arrived at EDR: 01/08/2021	Telephone: 202-566-0500
Date Made Active in Reports: 03/22/2021	Last EDR Contact: 07/09/2021
Number of Days to Update: 73	Next Scheduled EDR Contact: 10/18/2021
	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: 06/29/2021
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: No Update Planned

## FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

## FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

## MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/08/2021	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 03/11/2021	Telephone: 301-415-7169
Date Made Active in Reports: 05/11/2021	Last EDR Contact: 07/14/2021
Number of Days to Update: 61	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2019	Source: Department of Energy
Date Data Arrived at EDR: 12/01/2020	Telephone: 202-586-8719
Date Made Active in Reports: 02/09/2021	Last EDR Contact: 05/27/2021
Number of Days to Update: 70	Next Scheduled EDR Contact: 09/13/2021
	Data Release Frequency: Varies

## COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 05/27/2021
Number of Days to Update: 251	Next Scheduled EDR Contact: 09/13/2021
	Data Release Frequency: Varies

## PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 05/07/2021
Number of Days to Update: 96	Next Scheduled EDR Contact: 08/16/2021
	Data Release Frequency: Varies

## RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019	Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 06/22/2021
Number of Days to Update: 84	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: No Update Planned

## HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

## HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 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: 07/23/2021  
Next Scheduled EDR Contact: 11/08/2021  
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: 06/30/2021  
Date Data Arrived at EDR: 07/14/2021  
Date Made Active in Reports: 07/16/2021  
Number of Days to Update: 2

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 07/02/2021  
Next Scheduled EDR Contact: 10/18/2021  
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: 12/31/2017  
Date Data Arrived at EDR: 06/22/2020  
Date Made Active in Reports: 11/20/2020  
Number of Days to Update: 151

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 06/21/2021  
Next Scheduled EDR Contact: 10/04/2021  
Data Release Frequency: Biennially

## INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 07/14/2015  
Date Made Active in Reports: 01/10/2017  
Number of Days to Update: 546

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 07/02/2021  
Next Scheduled EDR Contact: 10/18/2021  
Data Release Frequency: Varies

## FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017  
Date Data Arrived at EDR: 09/11/2018  
Date Made Active in Reports: 09/14/2018  
Number of Days to Update: 3

Source: Department of Energy  
Telephone: 202-586-3559  
Last EDR Contact: 07/23/2021  
Next Scheduled EDR Contact: 11/15/2021  
Data Release Frequency: Varies

## UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/30/2019  
Date Data Arrived at EDR: 11/15/2019  
Date Made Active in Reports: 01/28/2020  
Number of Days to Update: 74

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 05/21/2021  
Next Scheduled EDR Contact: 08/30/2021  
Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/27/2021  
Date Data Arrived at EDR: 05/03/2021  
Date Made Active in Reports: 05/19/2021  
Number of Days to Update: 16

Source: Environmental Protection Agency  
Telephone: 703-603-8787  
Last EDR Contact: 08/04/2021  
Next Scheduled EDR Contact: 10/11/2021  
Data Release Frequency: Varies

## LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001  
Date Data Arrived at EDR: 10/27/2010  
Date Made Active in Reports: 12/02/2010  
Number of Days to Update: 36

Source: American Journal of Public Health  
Telephone: 703-305-6451  
Last EDR Contact: 12/02/2009  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: No Update Planned

## 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: No Update Planned

## MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 05/27/2021  
Date Data Arrived at EDR: 05/27/2021  
Date Made Active in Reports: 06/10/2021  
Number of Days to Update: 14

Source: DOL, Mine Safety & Health Administration  
Telephone: 202-693-9424  
Last EDR Contact: 07/01/2021  
Next Scheduled EDR Contact: 09/13/2021  
Data Release Frequency: Quarterly

## US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/01/2021  
Date Data Arrived at EDR: 02/24/2021  
Date Made Active in Reports: 05/19/2021  
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 05/25/2021  
Next Scheduled EDR Contact: 09/06/2021  
Data Release Frequency: Semi-Annually

## US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020  
Date Data Arrived at EDR: 05/27/2020  
Date Made Active in Reports: 08/13/2020  
Number of Days to Update: 78

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 05/27/2021  
Next Scheduled EDR Contact: 09/06/2021  
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: 05/27/2021  
Next Scheduled EDR Contact: 09/06/2021  
Data Release Frequency: Varies

## ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/23/2021  
Date Data Arrived at EDR: 03/25/2021  
Date Made Active in Reports: 06/17/2021  
Number of Days to Update: 84

Source: Department of Interior  
Telephone: 202-208-2609  
Last EDR Contact: 06/14/2021  
Next Scheduled EDR Contact: 09/20/2021  
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: 02/03/2021  
Date Data Arrived at EDR: 03/03/2021  
Date Made Active in Reports: 04/05/2021  
Number of Days to Update: 33

Source: EPA  
Telephone: (415) 947-8000  
Last EDR Contact: 05/18/2021  
Next Scheduled EDR Contact: 09/13/2021  
Data Release Frequency: Quarterly

## DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 11/03/2020  
Date Data Arrived at EDR: 11/17/2020  
Date Made Active in Reports: 02/09/2021  
Number of Days to Update: 84

Source: Environmental Protection Agency  
Telephone: 202-564-0527  
Last EDR Contact: 05/21/2021  
Next Scheduled EDR Contact: 09/06/2021  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018	Source: Department of Defense
Date Data Arrived at EDR: 07/02/2020	Telephone: 703-704-1564
Date Made Active in Reports: 09/17/2020	Last EDR Contact: 07/07/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 10/25/2021
	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: 04/04/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/06/2021	Telephone: 202-564-2280
Date Made Active in Reports: 06/25/2021	Last EDR Contact: 07/01/2021
Number of Days to Update: 80	Next Scheduled EDR Contact: 10/18/2021
	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: 05/14/2021	Source: EPA
Date Data Arrived at EDR: 05/14/2021	Telephone: 800-385-6164
Date Made Active in Reports: 08/03/2021	Last EDR Contact: 05/14/2021
Number of Days to Update: 81	Next Scheduled EDR Contact: 08/30/2021
	Data Release Frequency: Quarterly

## CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/22/2021	Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 03/23/2021	Telephone: 916-323-3400
Date Made Active in Reports: 06/10/2021	Last EDR Contact: 06/17/2021
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Quarterly

## CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019	Source: Livermore-Pleasanton Fire Department
Date Data Arrived at EDR: 05/14/2019	Telephone: 925-454-2361
Date Made Active in Reports: 07/17/2019	Last EDR Contact: 05/14/2021
Number of Days to Update: 64	Next Scheduled EDR Contact: 08/23/2021
	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/01/2021  
Date Data Arrived at EDR: 03/04/2021  
Date Made Active in Reports: 05/20/2021  
Number of Days to Update: 77

Source: Department of Toxic Substance Control  
Telephone: 916-327-4498  
Last EDR Contact: 05/25/2021  
Next Scheduled EDR Contact: 09/13/2021  
Data Release Frequency: Annually

**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: 02/26/2021  
Date Data Arrived at EDR: 03/02/2021  
Date Made Active in Reports: 05/19/2021  
Number of Days to Update: 78

Source: Antelope Valley Air Quality Management District  
Telephone: 661-723-8070  
Last EDR Contact: 05/25/2021  
Next Scheduled EDR Contact: 09/13/2021  
Data Release Frequency: Varies

**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: 05/18/2021  
Date Data Arrived at EDR: 05/19/2021  
Date Made Active in Reports: 08/05/2021  
Number of Days to Update: 78

Source: South Coast Air Quality Management District  
Telephone: 909-396-3211  
Last EDR Contact: 05/18/2021  
Next Scheduled EDR Contact: 09/06/2021  
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: 12/31/2018  
Date Data Arrived at EDR: 06/16/2020  
Date Made Active in Reports: 08/28/2020  
Number of Days to Update: 73

Source: California Air Resources Board  
Telephone: 916-322-2990  
Last EDR Contact: 06/10/2021  
Next Scheduled EDR Contact: 09/27/2021  
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: 04/16/2021  
Date Data Arrived at EDR: 04/20/2021  
Date Made Active in Reports: 07/07/2021  
Number of Days to Update: 78

Source: State Water Resources Control Board  
Telephone: 916-445-9379  
Last EDR Contact: 07/15/2021  
Next Scheduled EDR Contact: 11/01/2021  
Data Release Frequency: Varies

**Financial Assurance 1:** Financial Assurance Information Listing  
Financial Assurance information

Date of Government Version: 04/14/2021  
Date Data Arrived at EDR: 04/15/2021  
Date Made Active in Reports: 07/06/2021  
Number of Days to Update: 82

Source: Department of Toxic Substances Control  
Telephone: 916-255-3628  
Last EDR Contact: 07/13/2021  
Next Scheduled EDR Contact: 11/01/2021  
Data Release Frequency: Varies

**Financial Assurance 2:** Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/13/2021  
Date Data Arrived at EDR: 05/13/2021  
Date Made Active in Reports: 07/26/2021  
Number of Days to Update: 74

Source: California Integrated Waste Management Board  
Telephone: 916-341-6066  
Last EDR Contact: 08/04/2021  
Next Scheduled EDR Contact: 11/22/2021  
Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 12/31/2019	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 04/15/2020	Telephone: 916-255-1136
Date Made Active in Reports: 07/02/2020	Last EDR Contact: 07/09/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: Annually

## ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 05/14/2021	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/14/2021	Telephone: 877-786-9427
Date Made Active in Reports: 07/27/2021	Last EDR Contact: 05/14/2021
Number of Days to Update: 74	Next Scheduled EDR Contact: 08/30/2021
	Data Release Frequency: Quarterly

## HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/22/2009	Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 01/22/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/14/2021	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/14/2021	Telephone: 916-323-3400
Date Made Active in Reports: 07/27/2021	Last EDR Contact: 05/14/2021
Number of Days to Update: 74	Next Scheduled EDR Contact: 08/30/2021
	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: 04/05/2021	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 04/06/2021	Telephone: 916-440-7145
Date Made Active in Reports: 06/23/2021	Last EDR Contact: 07/01/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: Quarterly

## MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 03/08/2021	Source: Department of Conservation
Date Data Arrived at EDR: 03/09/2021	Telephone: 916-322-1080
Date Made Active in Reports: 03/30/2021	Last EDR Contact: 06/03/2021
Number of Days to Update: 21	Next Scheduled EDR Contact: 09/20/2021
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 01/29/2021	Source: Department of Public Health
Date Data Arrived at EDR: 03/03/2021	Telephone: 916-558-1784
Date Made Active in Reports: 05/20/2021	Last EDR Contact: 05/28/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 09/13/2021
	Data Release Frequency: Varies

## NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 05/10/2021	Source: State Water Resources Control Board
Date Data Arrived at EDR: 05/11/2021	Telephone: 916-445-9379
Date Made Active in Reports: 07/27/2021	Last EDR Contact: 05/11/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 08/23/2021
	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: 03/02/2021	Source: Department of Pesticide Regulation
Date Data Arrived at EDR: 03/03/2021	Telephone: 916-445-4038
Date Made Active in Reports: 05/20/2021	Last EDR Contact: 05/28/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 09/13/2021
	Data Release Frequency: Quarterly

## PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 03/09/2021	Source: Department of Conservation
Date Data Arrived at EDR: 03/09/2021	Telephone: 916-323-3836
Date Made Active in Reports: 03/31/2021	Last EDR Contact: 06/04/2021
Number of Days to Update: 22	Next Scheduled EDR Contact: 09/20/2021
	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: 03/12/2021	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/16/2021	Telephone: 916-445-3846
Date Made Active in Reports: 06/01/2021	Last EDR Contact: 06/08/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 09/27/2021
	Data Release Frequency: No Update Planned

## UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 03/08/2021	Source: Department of Conservation
Date Data Arrived at EDR: 03/09/2021	Telephone: 916-445-2408
Date Made Active in Reports: 03/31/2021	Last EDR Contact: 06/03/2021
Number of Days to Update: 22	Next Scheduled EDR Contact: 09/20/2021
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

Date of Government Version: 03/08/2021

Date Data Arrived at EDR: 03/09/2021

Date Made Active in Reports: 03/30/2021

Number of Days to Update: 21

Source: State Water Resource Control Board

Telephone: 866-480-1028

Last EDR Contact: 06/03/2021

Next Scheduled EDR Contact: 09/20/2021

Data Release Frequency: Varies

## WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 11/19/2019

Date Data Arrived at EDR: 01/07/2020

Date Made Active in Reports: 03/09/2020

Number of Days to Update: 62

Source: RWQCB, Central Valley Region

Telephone: 559-445-5577

Last EDR Contact: 07/01/2021

Next Scheduled EDR Contact: 10/18/2021

Data Release Frequency: Varies

## WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007

Date Data Arrived at EDR: 06/20/2007

Date Made Active in Reports: 06/29/2007

Number of Days to Update: 9

Source: State Water Resources Control Board

Telephone: 916-341-5227

Last EDR Contact: 05/14/2021

Next Scheduled EDR Contact: 08/30/2021

Data Release Frequency: No Update Planned

## WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009

Date Data Arrived at EDR: 07/21/2009

Date Made Active in Reports: 08/03/2009

Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board

Telephone: 213-576-6726

Last EDR Contact: 06/15/2021

Next Scheduled EDR Contact: 10/04/2021

Data Release Frequency: No Update Planned

## MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 03/08/2021

Date Data Arrived at EDR: 03/09/2021

Date Made Active in Reports: 03/30/2021

Number of Days to Update: 21

Source: State Water Resources Control Board

Telephone: 866-480-1028

Last EDR Contact: 06/03/2021

Next Scheduled EDR Contact: 09/20/2021

Data Release Frequency: Varies

## PROJECT: Project Sites (GEOTRACKER)

Projects sites

Date of Government Version: 03/08/2021

Date Data Arrived at EDR: 03/09/2021

Date Made Active in Reports: 03/30/2021

Number of Days to Update: 21

Source: State Water Resources Control Board

Telephone: 866-480-1028

Last EDR Contact: 06/03/2021

Next Scheduled EDR Contact: 09/20/2021

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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/09/2021  
Date Data Arrived at EDR: 03/09/2021  
Date Made Active in Reports: 03/31/2021  
Number of Days to Update: 22

Source: State Water Resources Control Board  
Telephone: 916-341-5810  
Last EDR Contact: 06/07/2021  
Next Scheduled EDR Contact: 09/20/2021  
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: 11/30/2020  
Date Data Arrived at EDR: 12/01/2020  
Date Made Active in Reports: 02/12/2021  
Number of Days to Update: 73

Source: State Water Resources Control Board  
Telephone: 866-794-4977  
Last EDR Contact: 05/19/2021  
Next Scheduled EDR Contact: 09/13/2021  
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: 04/19/2021  
Date Data Arrived at EDR: 04/20/2021  
Date Made Active in Reports: 07/07/2021  
Number of Days to Update: 78

Source: California Environmental Protection Agency  
Telephone: 916-323-2514  
Last EDR Contact: 07/15/2021  
Next Scheduled EDR Contact: 11/01/2021  
Data Release Frequency: Varies

## NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 03/08/2021  
Date Data Arrived at EDR: 03/09/2021  
Date Made Active in Reports: 03/30/2021  
Number of Days to Update: 21

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 06/03/2021  
Next Scheduled EDR Contact: 09/20/2021  
Data Release Frequency: Varies

## OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 03/08/2021  
Date Data Arrived at EDR: 03/09/2021  
Date Made Active in Reports: 03/30/2021  
Number of Days to Update: 21

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 06/03/2021  
Next Scheduled EDR Contact: 09/20/2021  
Data Release Frequency: Varies

## PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 03/08/2021  
Date Data Arrived at EDR: 03/09/2021  
Date Made Active in Reports: 03/30/2021  
Number of Days to Update: 21

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 06/03/2021  
Next Scheduled EDR Contact: 09/20/2021  
Data Release Frequency: Varies

## SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/08/2021  
Date Data Arrived at EDR: 03/09/2021  
Date Made Active in Reports: 03/30/2021  
Number of Days to Update: 21

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 06/03/2021  
Next Scheduled EDR Contact: 09/20/2021  
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: 03/08/2021  
Date Data Arrived at EDR: 03/09/2021  
Date Made Active in Reports: 03/30/2021  
Number of Days to Update: 21

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 06/03/2021  
Next Scheduled EDR Contact: 09/20/2021  
Data Release Frequency: Varies

## PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 02/05/2015  
Date Made Active in Reports: 03/06/2015  
Number of Days to Update: 29

Source: EPA  
Telephone: 202-564-2497  
Last EDR Contact: 06/30/2021  
Next Scheduled EDR Contact: 10/18/2021  
Data Release Frequency: No Update Planned

## 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: 06/30/2021  
Next Scheduled EDR Contact: 10/18/2021  
Data Release Frequency: No Update Planned

## PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011  
Date Data Arrived at EDR: 08/05/2011  
Date Made Active in Reports: 09/29/2011  
Number of Days to Update: 55

Source: EPA, Office of Water  
Telephone: 202-564-2496  
Last EDR Contact: 06/30/2021  
Next Scheduled EDR Contact: 10/18/2021  
Data Release Frequency: No Update Planned

## MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 04/06/2018  
Date Data Arrived at EDR: 10/21/2019  
Date Made Active in Reports: 10/24/2019  
Number of Days to Update: 3

Source: USGS  
Telephone: 703-648-6533  
Last EDR Contact: 05/27/2021  
Next Scheduled EDR Contact: 09/06/2021  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/08/2021  
Date Data Arrived at EDR: 04/09/2021  
Date Made Active in Reports: 04/20/2021  
Number of Days to Update: 11

Source: Department of Toxic Substances Control  
Telephone: 916-324-2444  
Last EDR Contact: 06/29/2021  
Next Scheduled EDR Contact: 10/18/2021  
Data Release Frequency: Varies

## **EDR HIGH RISK HISTORICAL RECORDS**

### ***EDR Exclusive Records***

#### **EDR MGP: EDR Proprietary Manufactured Gas Plants**

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

#### **EDR Hist Auto: EDR Exclusive Historical Auto Stations**

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

#### **EDR Hist Cleaner: EDR Exclusive Historical Cleaners**

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## **EDR RECOVERED GOVERNMENT ARCHIVES**

### ***Exclusive Recovered Govt. Archives***

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 06/29/2021
Number of Days to Update: 53	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: Semi-Annually

#### UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 03/17/2021	Source: Alameda County Environmental Health Services
Date Data Arrived at EDR: 03/18/2021	Telephone: 510-567-6700
Date Made Active in Reports: 03/25/2021	Last EDR Contact: 06/29/2021
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: Semi-Annually

### AMADOR COUNTY:

#### CUPA AMADOR: CUPA Facility List

Cupa Facility List

Date of Government Version: 02/02/2021	Source: Amador County Environmental Health
Date Data Arrived at EDR: 02/04/2021	Telephone: 209-223-6439
Date Made Active in Reports: 04/23/2021	Last EDR Contact: 07/26/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 11/15/2021
	Data Release Frequency: Varies

### BUTTE COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/29/2021  
Next Scheduled EDR Contact: 10/18/2021  
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing  
Cupa Facility Listing

Date of Government Version: 06/15/2021  
Date Data Arrived at EDR: 06/16/2021  
Date Made Active in Reports: 07/02/2021  
Number of Days to Update: 16

Source: Calveras County Environmental Health  
Telephone: 209-754-6399  
Last EDR Contact: 06/15/2021  
Next Scheduled EDR Contact: 10/04/2021  
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: 07/26/2021  
Next Scheduled EDR Contact: 11/15/2021  
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: 04/21/2021  
Date Data Arrived at EDR: 04/22/2021  
Date Made Active in Reports: 07/12/2021  
Number of Days to Update: 81

Source: Contra Costa Health Services Department  
Telephone: 925-646-2286  
Last EDR Contact: 07/20/2021  
Next Scheduled EDR Contact: 11/08/2021  
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List  
Cupa Facility list

Date of Government Version: 12/17/2020  
Date Data Arrived at EDR: 01/28/2021  
Date Made Active in Reports: 04/16/2021  
Number of Days to Update: 78

Source: Del Norte County Environmental Health Division  
Telephone: 707-465-0426  
Last EDR Contact: 07/20/2021  
Next Scheduled EDR Contact: 11/08/2021  
Data Release Frequency: Varies

EL DORADO COUNTY:



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA EL DORADO: CUPA Facility List CUPA facility list.

Date of Government Version: 05/10/2021  
Date Data Arrived at EDR: 05/12/2021  
Date Made Active in Reports: 07/26/2021  
Number of Days to Update: 75

Source: El Dorado County Environmental Management Department  
Telephone: 530-621-6623  
Last EDR Contact: 07/20/2021  
Next Scheduled EDR Contact: 11/08/2021  
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: 01/14/2021  
Date Data Arrived at EDR: 01/15/2021  
Date Made Active in Reports: 04/05/2021  
Number of Days to Update: 80

Source: Dept. of Community Health  
Telephone: 559-445-3271  
Last EDR Contact: 06/23/2021  
Next Scheduled EDR Contact: 10/11/2021  
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: 07/13/2021  
Next Scheduled EDR Contact: 11/01/2021  
Data Release Frequency: No Update Planned

## HUMBOLDT COUNTY:

### CUPA HUMBOLDT: CUPA Facility List CUPA facility list.

Date of Government Version: 05/17/2021  
Date Data Arrived at EDR: 05/18/2021  
Date Made Active in Reports: 05/20/2021  
Number of Days to Update: 2

Source: Humboldt County Environmental Health  
Telephone: N/A  
Last EDR Contact: 05/10/2021  
Next Scheduled EDR Contact: 08/30/2021  
Data Release Frequency: Semi-Annually

## IMPERIAL COUNTY:

### CUPA IMPERIAL: CUPA Facility List Cupa facility list.

Date of Government Version: 04/14/2021  
Date Data Arrived at EDR: 04/15/2021  
Date Made Active in Reports: 07/06/2021  
Number of Days to Update: 82

Source: San Diego Border Field Office  
Telephone: 760-339-2777  
Last EDR Contact: 07/13/2021  
Next Scheduled EDR Contact: 11/01/2021  
Data Release Frequency: Varies

## INYO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 05/11/2021  
Next Scheduled EDR Contact: 08/30/2021  
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: 04/22/2021  
Date Data Arrived at EDR: 04/30/2021  
Date Made Active in Reports: 07/19/2021  
Number of Days to Update: 80

Source: Kern County Public Health  
Telephone: 661-321-3000  
Last EDR Contact: 07/26/2021  
Next Scheduled EDR Contact: 11/15/2021  
Data Release Frequency: Varies

### UST KERN: Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 01/19/2021  
Date Data Arrived at EDR: 01/21/2021  
Date Made Active in Reports: 01/28/2021  
Number of Days to Update: 7

Source: Kern County Environment Health Services Department  
Telephone: 661-862-8700  
Last EDR Contact: 07/26/2021  
Next Scheduled EDR Contact: 11/15/2021  
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: 05/25/2021  
Next Scheduled EDR Contact: 08/30/2021  
Data Release Frequency: Varies

## LAKE COUNTY:

### CUPA LAKE: CUPA Facility List Cupa facility list

Date of Government Version: 05/10/2021  
Date Data Arrived at EDR: 05/12/2021  
Date Made Active in Reports: 07/26/2021  
Number of Days to Update: 75

Source: Lake County Environmental Health  
Telephone: 707-263-1164  
Last EDR Contact: 07/06/2021  
Next Scheduled EDR Contact: 10/25/2021  
Data Release Frequency: Varies

## LASSEN COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 07/13/2021  
Next Scheduled EDR Contact: 11/01/2021  
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: 06/08/2021  
Next Scheduled EDR Contact: 09/27/2021  
Data Release Frequency: No Update Planned

### HMS LOS ANGELES: HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 04/08/2021  
Date Data Arrived at EDR: 04/13/2021  
Date Made Active in Reports: 06/28/2021  
Number of Days to Update: 76

Source: Department of Public Works  
Telephone: 626-458-3517  
Last EDR Contact: 06/29/2021  
Next Scheduled EDR Contact: 10/18/2021  
Data Release Frequency: Semi-Annually

### LF LOS ANGELES: List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/12/2021  
Date Data Arrived at EDR: 04/13/2021  
Date Made Active in Reports: 06/28/2021  
Number of Days to Update: 76

Source: La County Department of Public Works  
Telephone: 818-458-5185  
Last EDR Contact: 07/09/2021  
Next Scheduled EDR Contact: 10/25/2021  
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: 01/01/2021  
Date Data Arrived at EDR: 02/18/2021  
Date Made Active in Reports: 05/10/2021  
Number of Days to Update: 81

Source: Engineering & Construction Division  
Telephone: 213-473-7869  
Last EDR Contact: 07/06/2021  
Next Scheduled EDR Contact: 10/25/2021  
Data Release Frequency: Varies

### LOS ANGELES AST: Active & Inactive AST Inventory

A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019  
Date Data Arrived at EDR: 06/25/2019  
Date Made Active in Reports: 08/22/2019  
Number of Days to Update: 58

Source: Los Angeles Fire Department  
Telephone: 213-978-3800  
Last EDR Contact: 06/17/2021  
Next Scheduled EDR Contact: 10/04/2021  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 02/04/2021	Source: Los Angeles County Department of Public Works
Date Data Arrived at EDR: 04/16/2021	Telephone: 626-458-6973
Date Made Active in Reports: 04/21/2021	Last EDR Contact: 07/12/2021
Number of Days to Update: 5	Next Scheduled EDR Contact: 10/25/2021
	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: 04/19/2021	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 06/17/2021	Telephone: 213-978-3800
Date Made Active in Reports: 06/28/2021	Last EDR Contact: 06/17/2021
Number of Days to Update: 11	Next Scheduled EDR Contact: 10/04/2021
	Data Release Frequency: Varies

## LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2019	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 06/25/2019	Telephone: 213-978-3800
Date Made Active in Reports: 08/22/2019	Last EDR Contact: 06/17/2021
Number of Days to Update: 58	Next Scheduled EDR Contact: 10/04/2021
	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: 03/02/2021	Source: Community Health Services
Date Data Arrived at EDR: 04/16/2021	Telephone: 323-890-7806
Date Made Active in Reports: 07/06/2021	Last EDR Contact: 07/09/2021
Number of Days to Update: 81	Next Scheduled EDR Contact: 10/25/2021
	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: 07/06/2021
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/25/2021
	Data Release Frequency: No Update Planned

## UST LONG BEACH: City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019	Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 04/23/2019	Telephone: 562-570-2563
Date Made Active in Reports: 06/27/2019	Last EDR Contact: 07/13/2021
Number of Days to Update: 65	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST TORRANCE: City of Torrance Underground Storage Tank  
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 02/02/2021	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 04/28/2021	Telephone: 310-618-2973
Date Made Active in Reports: 07/13/2021	Last EDR Contact: 07/13/2021
Number of Days to Update: 76	Next Scheduled EDR Contact: 11/01/2021
	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: 05/12/2021
Number of Days to Update: 72	Next Scheduled EDR Contact: 08/30/2021
	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: 06/22/2021
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: No Update Planned

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database  
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/24/2021	Source: Department of Public Health
Date Data Arrived at EDR: 04/07/2021	Telephone: 707-463-4466
Date Made Active in Reports: 06/24/2021	Last EDR Contact: 05/18/2021
Number of Days to Update: 78	Next Scheduled EDR Contact: 09/06/2021
	Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List  
CUPA facility list.

Date of Government Version: 05/13/2021	Source: Merced County Environmental Health
Date Data Arrived at EDR: 05/14/2021	Telephone: 209-381-1094
Date Made Active in Reports: 07/26/2021	Last EDR Contact: 05/12/2021
Number of Days to Update: 73	Next Scheduled EDR Contact: 08/30/2021
	Data Release Frequency: Varies

MONO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 06/02/2021  
Next Scheduled EDR Contact: 09/06/3021  
Data Release Frequency: Varies

## MONTEREY COUNTY:

### CUPA MONTEREY: CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/23/2021  
Date Data Arrived at EDR: 06/23/2021  
Date Made Active in Reports: 06/24/2021  
Number of Days to Update: 1

Source: Monterey County Health Department  
Telephone: 831-796-1297  
Last EDR Contact: 06/22/2021  
Next Scheduled EDR Contact: 10/11/2021  
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: 05/18/2021  
Next Scheduled EDR Contact: 09/06/2021  
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: 05/18/2021  
Next Scheduled EDR Contact: 09/06/2021  
Data Release Frequency: No Update Planned

## NEVADA COUNTY:

### CUPA NEVADA: CUPA Facility List

CUPA facility list.

Date of Government Version: 04/28/2021  
Date Data Arrived at EDR: 04/29/2021  
Date Made Active in Reports: 07/15/2021  
Number of Days to Update: 77

Source: Community Development Agency  
Telephone: 530-265-1467  
Last EDR Contact: 07/20/2021  
Next Scheduled EDR Contact: 11/08/2021  
Data Release Frequency: Varies

## ORANGE COUNTY:

### IND\_SITE ORANGE: List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/01/2021  
Date Data Arrived at EDR: 04/30/2021  
Date Made Active in Reports: 07/19/2021  
Number of Days to Update: 80

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 07/29/2021  
Next Scheduled EDR Contact: 11/15/2021  
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups  
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 03/01/2021  
Date Data Arrived at EDR: 05/03/2021  
Date Made Active in Reports: 05/12/2021  
Number of Days to Update: 9

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 04/29/2021  
Next Scheduled EDR Contact: 08/16/2021  
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities  
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/29/2021  
Date Data Arrived at EDR: 04/30/2021  
Date Made Active in Reports: 07/19/2021  
Number of Days to Update: 80

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 07/29/2021  
Next Scheduled EDR Contact: 11/15/2021  
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: 05/25/2021  
Date Data Arrived at EDR: 05/26/2021  
Date Made Active in Reports: 06/01/2021  
Number of Days to Update: 6

Source: Placer County Health and Human Services  
Telephone: 530-745-2363  
Last EDR Contact: 05/25/2021  
Next Scheduled EDR Contact: 09/13/2021  
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: 07/13/2021  
Next Scheduled EDR Contact: 11/01/2021  
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites  
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 06/29/2021  
Date Data Arrived at EDR: 06/30/2021  
Date Made Active in Reports: 07/14/2021  
Number of Days to Update: 14

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 06/08/2021  
Next Scheduled EDR Contact: 09/27/2021  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## UST RIVERSIDE: Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 06/29/2021  
Date Data Arrived at EDR: 06/30/2021  
Date Made Active in Reports: 07/14/2021  
Number of Days to Update: 14

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 06/07/2021  
Next Scheduled EDR Contact: 09/27/2021  
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: 03/30/2021  
Date Data Arrived at EDR: 04/01/2021  
Date Made Active in Reports: 06/23/2021  
Number of Days to Update: 83

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 07/01/2021  
Next Scheduled EDR Contact: 10/11/2021  
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: 03/30/2021  
Date Data Arrived at EDR: 04/01/2021  
Date Made Active in Reports: 06/25/2021  
Number of Days to Update: 85

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 08/04/2021  
Next Scheduled EDR Contact: 10/11/2021  
Data Release Frequency: Quarterly

## SAN BENITO COUNTY:

### CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 04/28/2021  
Date Data Arrived at EDR: 04/29/2021  
Date Made Active in Reports: 05/03/2021  
Number of Days to Update: 4

Source: San Benito County Environmental Health  
Telephone: N/A  
Last EDR Contact: 07/26/2021  
Next Scheduled EDR Contact: 11/15/2021  
Data Release Frequency: Varies

## SAN BERNARDINO COUNTY:

### PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 05/19/2021  
Date Data Arrived at EDR: 05/19/2021  
Date Made Active in Reports: 06/07/2021  
Number of Days to Update: 19

Source: San Bernardino County Fire Department Hazardous Materials Division  
Telephone: 909-387-3041  
Last EDR Contact: 07/27/2021  
Next Scheduled EDR Contact: 11/15/2021  
Data Release Frequency: Quarterly

## SAN DIEGO COUNTY:



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 03/02/2021  
Date Data Arrived at EDR: 03/03/2021  
Date Made Active in Reports: 05/21/2021  
Number of Days to Update: 79

Source: Hazardous Materials Management Division  
Telephone: 619-338-2268  
Last EDR Contact: 05/28/2021  
Next Scheduled EDR Contact: 09/13/2021  
Data Release Frequency: Quarterly

## LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2020  
Date Data Arrived at EDR: 11/23/2020  
Date Made Active in Reports: 02/08/2021  
Number of Days to Update: 77

Source: Department of Health Services  
Telephone: 619-338-2209  
Last EDR Contact: 07/27/2021  
Next Scheduled EDR Contact: 11/01/2021  
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: 07/14/2020  
Date Data Arrived at EDR: 07/16/2020  
Date Made Active in Reports: 09/29/2020  
Number of Days to Update: 75

Source: Department of Environmental Health  
Telephone: 858-505-6874  
Last EDR Contact: 07/13/2021  
Next Scheduled EDR Contact: 11/01/2021  
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: 05/25/2021  
Next Scheduled EDR Contact: 09/13/2021  
Data Release Frequency: No Update Planned

## SAN FRANCISCO COUNTY:

### CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 05/06/2021  
Date Data Arrived at EDR: 05/07/2021  
Date Made Active in Reports: 07/23/2021  
Number of Days to Update: 77

Source: San Francisco County Department of Environmental Health  
Telephone: 415-252-3896  
Last EDR Contact: 07/27/2021  
Next Scheduled EDR Contact: 11/15/2021  
Data Release Frequency: Varies

### LUST SAN FRANCISCO: Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/19/2008  
Date Data Arrived at EDR: 09/19/2008  
Date Made Active in Reports: 09/29/2008  
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County  
Telephone: 415-252-3920  
Last EDR Contact: 07/27/2021  
Next Scheduled EDR Contact: 11/15/2021  
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: 05/06/2021  
Date Data Arrived at EDR: 05/07/2021  
Date Made Active in Reports: 07/23/2021  
Number of Days to Update: 77

Source: Department of Public Health  
Telephone: 415-252-3920  
Last EDR Contact: 07/27/2021  
Next Scheduled EDR Contact: 11/15/2021  
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST  
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018  
Date Data Arrived at EDR: 06/26/2018  
Date Made Active in Reports: 07/11/2018  
Number of Days to Update: 15

Source: Environmental Health Department  
Telephone: N/A  
Last EDR Contact: 06/08/2021  
Next Scheduled EDR Contact: 09/27/2021  
Data Release Frequency: No Update Planned

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List  
Cupa Facility List.

Date of Government Version: 05/07/2021  
Date Data Arrived at EDR: 05/11/2021  
Date Made Active in Reports: 05/14/2021  
Number of Days to Update: 3

Source: San Luis Obispo County Public Health Department  
Telephone: 805-781-5596  
Last EDR Contact: 05/06/2021  
Next Scheduled EDR Contact: 08/30/2021  
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory  
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020  
Date Data Arrived at EDR: 02/20/2020  
Date Made Active in Reports: 04/24/2020  
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 06/10/2021  
Next Scheduled EDR Contact: 09/20/2021  
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: 06/02/2021  
Next Scheduled EDR Contact: 09/20/2021  
Data Release Frequency: No Update Planned

SANTA BARBARA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA SANTA BARBARA: CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011  
Date Data Arrived at EDR: 09/09/2011  
Date Made Active in Reports: 10/07/2011  
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department  
Telephone: 805-686-8167  
Last EDR Contact: 05/12/2021  
Next Scheduled EDR Contact: 08/30/2021  
Data Release Frequency: No Update Planned

## SANTA CLARA COUNTY:

### CUPA SANTA CLARA: Cupa Facility List

Cupa facility list

Date of Government Version: 02/24/2021  
Date Data Arrived at EDR: 02/26/2021  
Date Made Active in Reports: 05/19/2021  
Number of Days to Update: 28

Source: Department of Environmental Health  
Telephone: 408-918-1973  
Last EDR Contact: 08/04/2021  
Next Scheduled EDR Contact: 08/30/2021  
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: 05/18/2021  
Next Scheduled EDR Contact: 09/06/2021  
Data Release Frequency: No Update Planned

### SAN JOSE HAZMAT: Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020  
Date Data Arrived at EDR: 11/05/2020  
Date Made Active in Reports: 01/26/2021  
Number of Days to Update: 82

Source: City of San Jose Fire Department  
Telephone: 408-535-7694  
Last EDR Contact: 07/27/2021  
Next Scheduled EDR Contact: 11/15/2021  
Data Release Frequency: Annually

## SANTA CRUZ COUNTY:

### CUPA SANTA CRUZ: CUPA Facility List

CUPA facility listing.

Date of Government Version: 01/21/2017  
Date Data Arrived at EDR: 02/22/2017  
Date Made Active in Reports: 05/23/2017  
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health  
Telephone: 831-464-2761  
Last EDR Contact: 05/12/2021  
Next Scheduled EDR Contact: 08/30/2021  
Data Release Frequency: Varies

## SHASTA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA SHASTA: CUPA Facility List Cupa Facility List.

Date of Government Version: 06/15/2017  
Date Data Arrived at EDR: 06/19/2017  
Date Made Active in Reports: 08/09/2017  
Number of Days to Update: 51

Source: Shasta County Department of Resource Management  
Telephone: 530-225-5789  
Last EDR Contact: 05/12/2021  
Next Scheduled EDR Contact: 08/30/2021  
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: 05/25/2021  
Next Scheduled EDR Contact: 09/13/2021  
Data Release Frequency: No Update Planned

### UST SOLANO: Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 03/23/2021  
Date Data Arrived at EDR: 03/25/2021  
Date Made Active in Reports: 06/10/2021  
Number of Days to Update: 77

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 06/22/2021  
Next Scheduled EDR Contact: 09/12/2021  
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: 10/04/2021  
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: 04/01/2021  
Date Data Arrived at EDR: 04/01/2021  
Date Made Active in Reports: 06/23/2021  
Number of Days to Update: 83

Source: Department of Health Services  
Telephone: 707-565-6565  
Last EDR Contact: 06/15/2021  
Next Scheduled EDR Contact: 10/04/2021  
Data Release Frequency: Quarterly

## STANISLAUS COUNTY:

### CUPA STANISLAUS: CUPA Facility List Cupa facility list

Date of Government Version: 05/14/2021  
Date Data Arrived at EDR: 05/17/2021  
Date Made Active in Reports: 08/03/2021  
Number of Days to Update: 78

Source: Stanislaus County Department of Environmental Protection  
Telephone: 209-525-6751  
Last EDR Contact: 07/06/2021  
Next Scheduled EDR Contact: 10/25/2021  
Data Release Frequency: Varies

## SUTTER COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## UST SUTTER: Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 03/01/2021  
Date Data Arrived at EDR: 03/02/2021  
Date Made Active in Reports: 05/19/2021  
Number of Days to Update: 78

Source: Sutter County Environmental Health Services  
Telephone: 530-822-7500  
Last EDR Contact: 05/25/2021  
Next Scheduled EDR Contact: 09/13/2021  
Data Release Frequency: Semi-Annually

## TEHAMA COUNTY:

### CUPA TEHAMA: CUPA Facility List

Cupa facilities

Date of Government Version: 01/13/2021  
Date Data Arrived at EDR: 01/14/2021  
Date Made Active in Reports: 04/06/2021  
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health  
Telephone: 530-527-8020  
Last EDR Contact: 07/27/2021  
Next Scheduled EDR Contact: 11/15/2021  
Data Release Frequency: Varies

## TRINITY COUNTY:

### CUPA TRINITY: CUPA Facility List

Cupa facility list

Date of Government Version: 04/14/2021  
Date Data Arrived at EDR: 04/15/2021  
Date Made Active in Reports: 07/06/2021  
Number of Days to Update: 82

Source: Department of Toxic Substances Control  
Telephone: 760-352-0381  
Last EDR Contact: 07/13/2021  
Next Scheduled EDR Contact: 11/01/2021  
Data Release Frequency: Varies

## TULARE COUNTY:

### CUPA TULARE: CUPA Facility List

Cupa program facilities

Date of Government Version: 04/26/2021  
Date Data Arrived at EDR: 04/28/2021  
Date Made Active in Reports: 07/13/2021  
Number of Days to Update: 76

Source: Tulare County Environmental Health Services Division  
Telephone: 559-624-7400  
Last EDR Contact: 07/27/2021  
Next Scheduled EDR Contact: 11/15/2021  
Data Release Frequency: Varies

## TUOLUMNE COUNTY:

### CUPA TUOLUMNE: CUPA Facility List

Cupa facility list

Date of Government Version: 04/23/2018  
Date Data Arrived at EDR: 04/25/2018  
Date Made Active in Reports: 06/25/2018  
Number of Days to Update: 61

Source: Division of Environmental Health  
Telephone: 209-533-5633  
Last EDR Contact: 07/13/2021  
Next Scheduled EDR Contact: 11/01/2021  
Data Release Frequency: Varies

## VENTURA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 03/29/2021	Source: Ventura County Environmental Health Division
Date Data Arrived at EDR: 04/22/2021	Telephone: 805-654-2813
Date Made Active in Reports: 07/12/2021	Last EDR Contact: 07/15/2021
Number of Days to Update: 81	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Quarterly

## LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011	Source: Environmental Health Division
Date Data Arrived at EDR: 12/01/2011	Telephone: 805-654-2813
Date Made Active in Reports: 01/19/2012	Last EDR Contact: 06/22/2021
Number of Days to Update: 49	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: No Update Planned

## LUST VENTURA: Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008	Source: Environmental Health Division
Date Data Arrived at EDR: 06/24/2008	Telephone: 805-654-2813
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 08/04/2021
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/22/2021
	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: 03/29/2021	Source: Ventura County Resource Management Agency
Date Data Arrived at EDR: 04/21/2021	Telephone: 805-654-2813
Date Made Active in Reports: 04/23/2021	Last EDR Contact: 07/15/2021
Number of Days to Update: 2	Next Scheduled EDR Contact: 11/01/2021
	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: 03/01/2021	Source: Environmental Health Division
Date Data Arrived at EDR: 03/09/2021	Telephone: 805-654-2813
Date Made Active in Reports: 03/31/2021	Last EDR Contact: 06/04/2021
Number of Days to Update: 22	Next Scheduled EDR Contact: 09/20/2021
	Data Release Frequency: Quarterly

## YOLO COUNTY:

### UST YOLO: Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 03/26/2021	Source: Yolo County Department of Health
Date Data Arrived at EDR: 04/01/2021	Telephone: 530-666-8646
Date Made Active in Reports: 06/23/2021	Last EDR Contact: 06/22/2021
Number of Days to Update: 83	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: Annually

## YUBA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA YUBA: CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 04/21/2021  
Date Data Arrived at EDR: 04/22/2021  
Date Made Active in Reports: 05/12/2021  
Number of Days to Update: 20

Source: Yuba County Environmental Health Department  
Telephone: 530-749-7523  
Last EDR Contact: 07/20/2021  
Next Scheduled EDR Contact: 11/08/2021  
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: 03/24/2021  
Date Data Arrived at EDR: 05/11/2021  
Date Made Active in Reports: 07/28/2021  
Number of Days to Update: 78

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 05/11/2021  
Next Scheduled EDR Contact: 08/23/2021  
Data Release Frequency: No Update Planned

## NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018  
Date Data Arrived at EDR: 04/10/2019  
Date Made Active in Reports: 05/16/2019  
Number of Days to Update: 36

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 07/09/2021  
Next Scheduled EDR Contact: 10/18/2021  
Data Release Frequency: Annually

## NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019  
Date Data Arrived at EDR: 04/29/2020  
Date Made Active in Reports: 07/10/2020  
Number of Days to Update: 72

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 07/29/2021  
Next Scheduled EDR Contact: 11/08/2021  
Data Release Frequency: Quarterly

## PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018  
Date Data Arrived at EDR: 07/19/2019  
Date Made Active in Reports: 09/10/2019  
Number of Days to Update: 53

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 07/07/2021  
Next Scheduled EDR Contact: 10/25/2021  
Data Release Frequency: Annually

## RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2019  
Date Data Arrived at EDR: 02/11/2021  
Date Made Active in Reports: 02/24/2021  
Number of Days to Update: 13

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 05/13/2021  
Next Scheduled EDR Contact: 08/30/2021  
Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018

Date Data Arrived at EDR: 06/19/2019

Date Made Active in Reports: 09/03/2019

Number of Days to Update: 76

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 06/03/2021

Next Scheduled EDR Contact: 09/20/2021

Data Release Frequency: Annually

### Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

### Electric Power Transmission Line Data

Source: Endeavor Business Media

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**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

### AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

### Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

### Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

### Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

### Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

### Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory  
Source: Department of Fish and Wildlife  
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map  
Source: U.S. Geological Survey

### **STREET AND ADDRESS INFORMATION**

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

2481 DEERWOOD DRIVE  
2481 DEERWOOD DRIVE  
SAN RAMON, CA 94583

### TARGET PROPERTY COORDINATES

Latitude (North):	37.773788 - 37° 46' 25.64"
Longitude (West):	121.994392 - 121° 59' 39.81"
Universal Transverse Mercator:	Zone 10
UTM X (Meters):	588563.6
UTM Y (Meters):	4180987.8
Elevation:	639 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	5640382 DIABLO, CA
Version Date:	2012
Northwest Map:	5640618 LAS TRAMPAS RIDGE, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## 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).

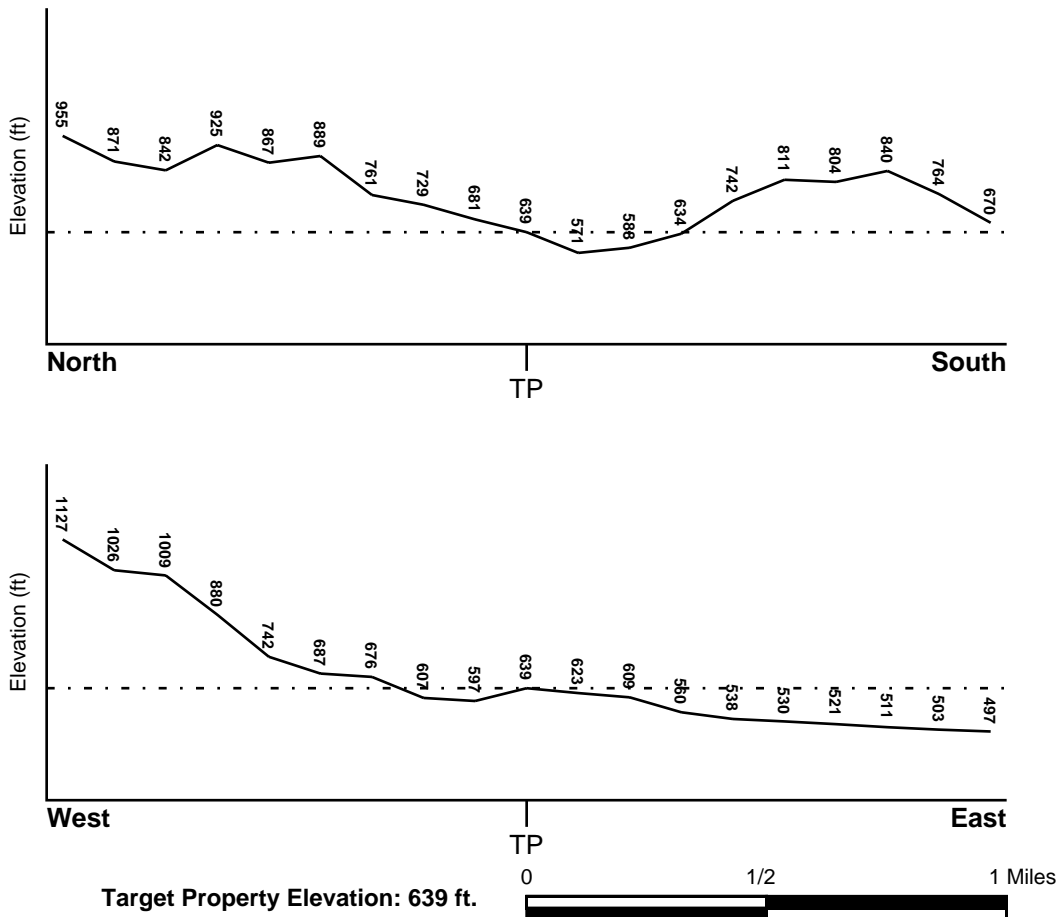
## TOPOGRAPHIC INFORMATION

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 South

## 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>
06013C0463F	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
06013C0445F	FEMA FIRM Flood data
06013C0461F	FEMA FIRM Flood data

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
DIABLO	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**

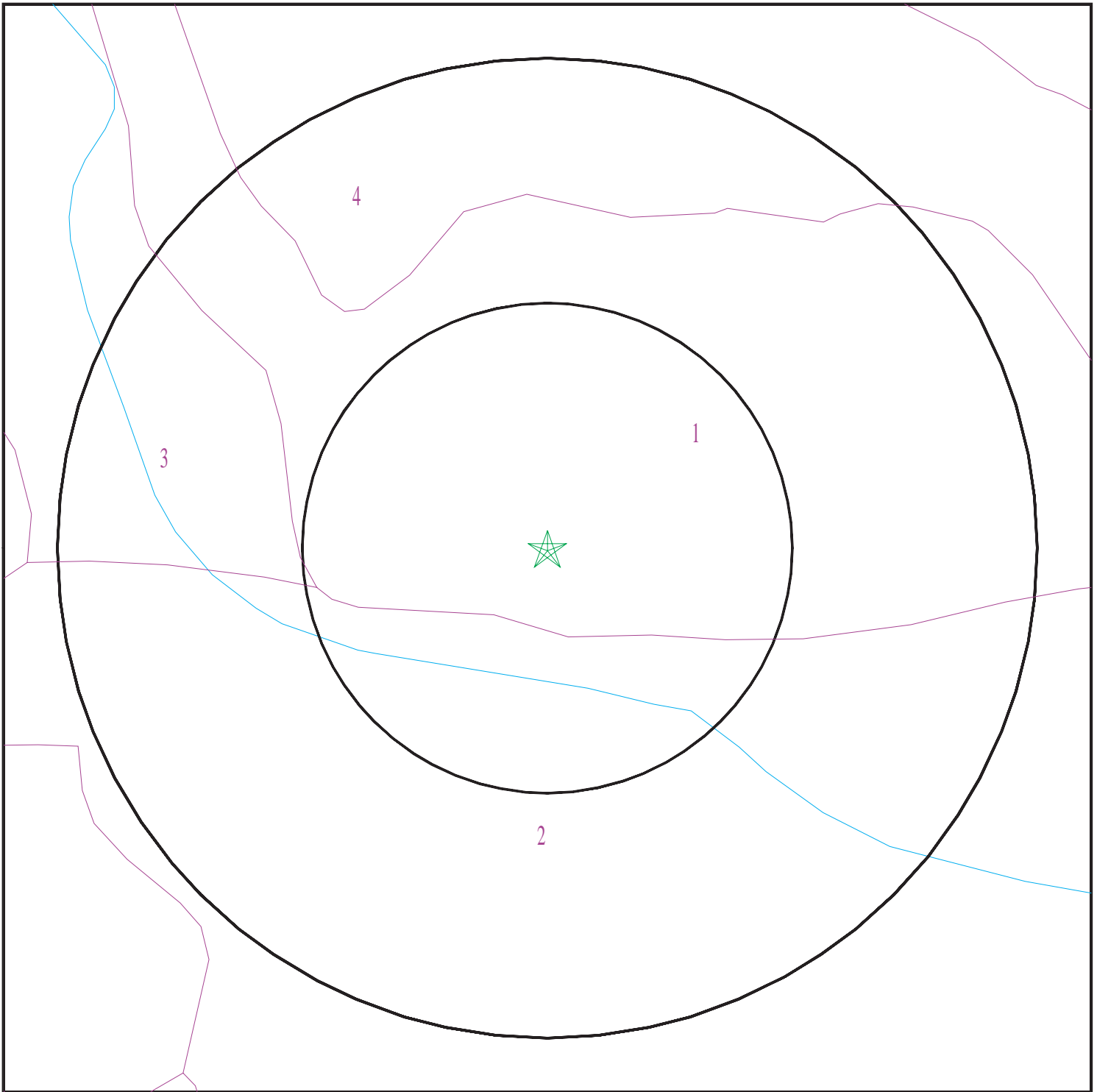
Era:	Cenozoic
System:	Tertiary
Series:	Pliocene
Code:	Tpc ( <i>decoded above as Era, System &amp; Series</i> )

#### **GEOLOGIC AGE IDENTIFICATION**

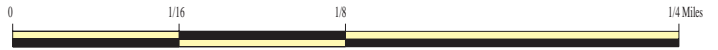
Category: Continental Deposits

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 - 06610051.2r



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: 2481 Deerwood Drive  
ADDRESS: 2481 Deerwood Drive  
San Ramon CA 94583  
LAT/LONG: 37.773788 / 121.994392

CLIENT: Engeo Inc.  
CONTACT: Stephen Fallon  
INQUIRY #: 06610051.2r  
DATE: August 06, 2021 2:47 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: LOS OSOS

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
2	9 inches	31 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
3	31 inches	35 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 2

Soil Component Name: BOTELLA

Soil Surface Texture: clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: 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	3 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 4 Min: 1.4	Max: 7.3 Min: 6.1
2	3 inches	68 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 4 Min: 1.4	Max: 7.3 Min: 6.1

### Soil Map ID: 3

Soil Component Name: BOTELLA

Soil Surface Texture: clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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	3 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.3 Min: 6.1
2	3 inches	68 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.3 Min: 6.1

### Soil Map ID: 4

Soil Component Name: LOS OSOS

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

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	9 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
2	9 inches	31 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
3	31 inches	35 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:

## LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

## **FEDERAL USGS WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

## **FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

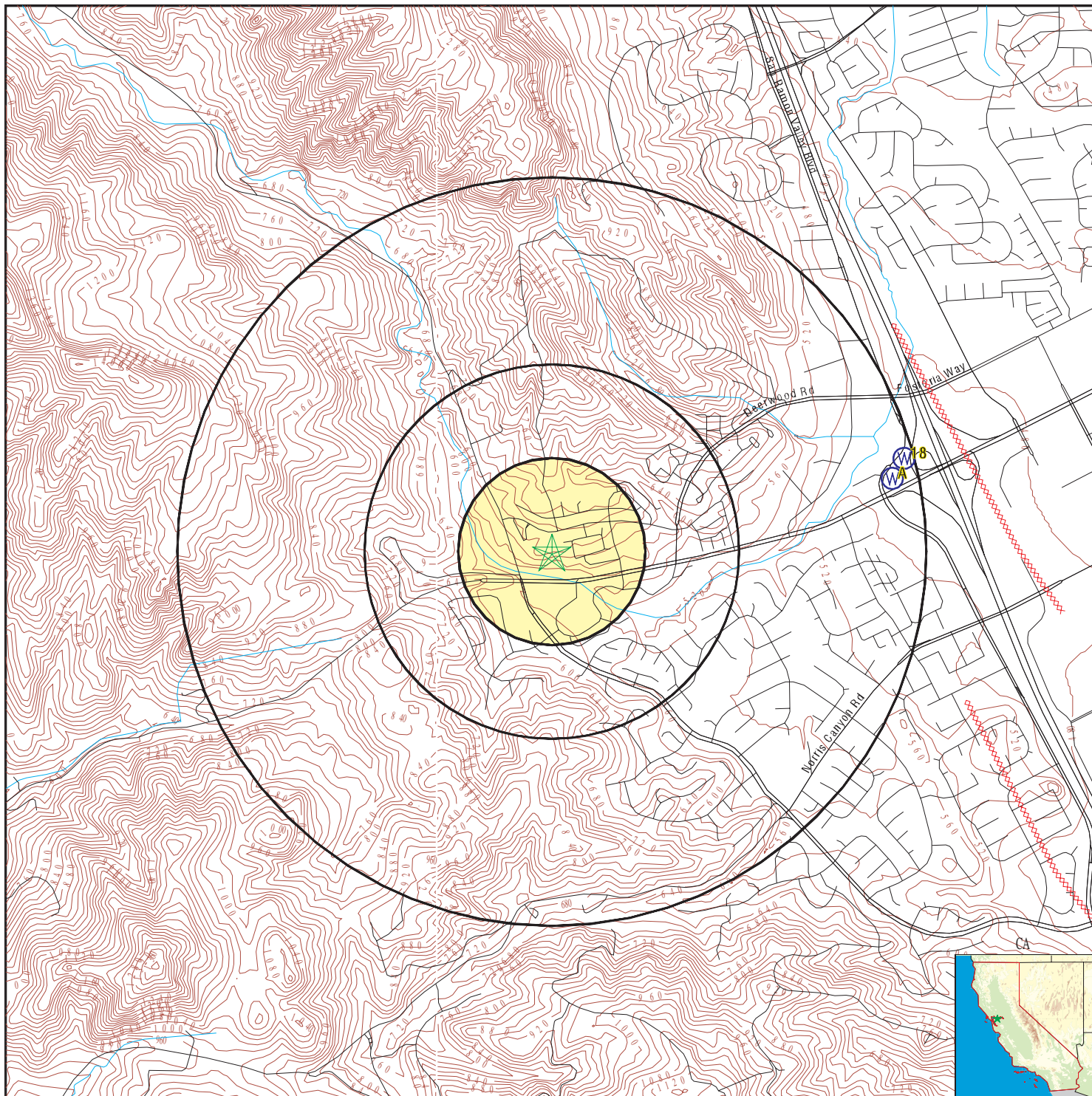
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

## STATE DATABASE WELL INFORMATION

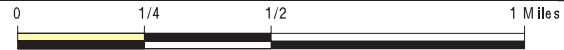
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	CAEDF0000138250	1/2 - 1 Mile East
A2	CAEDF0000104382	1/2 - 1 Mile ENE
A3	CAEDF0000125386	1/2 - 1 Mile ENE
A4	CAEDF0000088365	1/2 - 1 Mile ENE
A5	CAEDF0000042102	1/2 - 1 Mile ENE
A6	CAEDF0000126390	1/2 - 1 Mile East
A7	CAEDF0000081039	1/2 - 1 Mile ENE
A8	CAEDF0000094475	1/2 - 1 Mile ENE
A9	CAEDF0000096286	1/2 - 1 Mile ENE
A10	CAEDF0000131936	1/2 - 1 Mile ENE
A11	CAEDF0000044606	1/2 - 1 Mile ENE
A12	CAEDF0000074232	1/2 - 1 Mile ENE
A13	CAEDF0000013514	1/2 - 1 Mile ENE
A14	CAEDF0000096827	1/2 - 1 Mile ENE
A15	CAEDF0000046931	1/2 - 1 Mile ENE
A16	CAEDF0000016897	1/2 - 1 Mile ENE
A17	CAEDF0000096270	1/2 - 1 Mile ENE
18	CAEDF0000083080	1/2 - 1 Mile ENE

# PHYSICAL SETTING SOURCE MAP - 06610051.2r



- 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: 2481 Deerwood Drive  
 ADDRESS: 2481 Deerwood Drive  
 San Ramon CA 94583  
 LAT/LONG: 37.773788 / 121.994392

CLIENT: Engeo Inc.  
 CONTACT: Stephen Fallon  
 INQUIRY #: 06610051.2r  
 DATE: August 06, 2021 2:47 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A1**  
**East**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000138250**

Well ID: T0601300383-ESE-2      Well Type: MONITORING  
 Source: EDF      Other Name: ESE-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=T0601300383&assigned\\_name=ESE-2&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0601300383&assigned_name=ESE-2&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0601300383&assigned\\_name=ESE-2](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0601300383&assigned_name=ESE-2)

**A2**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000104382**

Well ID: T0601300383-ESE-1      Well Type: MONITORING  
 Source: EDF      Other Name: ESE-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=T0601300383&assigned\\_name=ESE-1&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0601300383&assigned_name=ESE-1&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0601300383&assigned\\_name=ESE-1](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0601300383&assigned_name=ESE-1)

**A3**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000125386**

Well ID: T0601300383-SW-2      Well Type: MONITORING  
 Source: EDF      Other Name: SW-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=T0601300383&assigned\\_name=SW-2&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0601300383&assigned_name=SW-2&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0601300383&assigned\\_name=SW-2](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0601300383&assigned_name=SW-2)

**A4**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000088365**

Well ID: T0601300383-SW-3      Well Type: MONITORING  
 Source: EDF      Other Name: SW-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=T0601300383&assigned\\_name=SW-3&store\\_num=](https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0601300383&assigned_name=SW-3&store_num=)  
 GeoTracker Data: [https://geotracker.waterboards.ca.gov/profile\\_report.asp?cmd=MWEDFResults&global\\_id=T0601300383&assigned\\_name=SW-3](https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0601300383&assigned_name=SW-3)

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A5**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000042102**

Well ID:	T0601300383-SW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	SW-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=T0601300383&amp;assigned_name=SW-1&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0601300383&amp;assigned_name=SW-1&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0601300383&amp;assigned_name=SW-1">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0601300383&amp;assigned_name=SW-1</a>		

**A6**  
**East**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000126390**

Well ID:	T0601300383-ESE-4	Well Type:	MONITORING
Source:	EDF	Other Name:	ESE-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=T0601300383&amp;assigned_name=ESE-4&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0601300383&amp;assigned_name=ESE-4&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0601300383&amp;assigned_name=ESE-4">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0601300383&amp;assigned_name=ESE-4</a>		

**A7**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000081039**

Well ID:	T0601300383-SW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	SW-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=T0601300383&amp;assigned_name=SW-4&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0601300383&amp;assigned_name=SW-4&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0601300383&amp;assigned_name=SW-4">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0601300383&amp;assigned_name=SW-4</a>		

**A8**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000094475**

Well ID:	T0601300383-OW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	OW-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=T0601300383&amp;assigned_name=OW-1&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0601300383&amp;assigned_name=OW-1&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0601300383&amp;assigned_name=OW-1">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0601300383&amp;assigned_name=OW-1</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A9**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000096286**

Well ID:	T0601300383-ESE-3	Well Type:	MONITORING
Source:	EDF	Other Name:	ESE-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=T0601300383&amp;assigned_name=ESE-3&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0601300383&amp;assigned_name=ESE-3&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0601300383&amp;assigned_name=ESE-3">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0601300383&amp;assigned_name=ESE-3</a>		

**A10**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000131936**

Well ID:	T0601300383-ESE-5	Well Type:	MONITORING
Source:	EDF	Other Name:	ESE-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=T0601300383&amp;assigned_name=ESE-5&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0601300383&amp;assigned_name=ESE-5&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0601300383&amp;assigned_name=ESE-5">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0601300383&amp;assigned_name=ESE-5</a>		

**A11**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000044606**

Well ID:	T0601300383-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=T0601300383&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=T0601300383&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=T0601300383&amp;assigned_name=MW-8">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0601300383&amp;assigned_name=MW-8</a>		

**A12**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000074232**

Well ID:	T0601300383-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=T0601300383&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=T0601300383&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=T0601300383&amp;assigned_name=MW-7">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0601300383&amp;assigned_name=MW-7</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A13**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000013514**

Well ID:	T0601300383-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=T0601300383&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=T0601300383&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=T0601300383&amp;assigned_name=MW-6">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0601300383&amp;assigned_name=MW-6</a>		

**A14**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000096827**

Well ID:	T0601300383-MW-13	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-13
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=T0601300383&amp;assigned_name=MW-13&amp;store_num=">https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&amp;samp_date=&amp;global_id=T0601300383&amp;assigned_name=MW-13&amp;store_num=</a>		
GeoTracker Data:	<a href="https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0601300383&amp;assigned_name=MW-13">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0601300383&amp;assigned_name=MW-13</a>		

**A15**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000046931**

Well ID:	T0601300383-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=T0601300383&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=T0601300383&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=T0601300383&amp;assigned_name=MW-9">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0601300383&amp;assigned_name=MW-9</a>		

**A16**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000016897**

Well ID:	T0601300383-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=T0601300383&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=T0601300383&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=T0601300383&amp;assigned_name=MW-11">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0601300383&amp;assigned_name=MW-11</a>		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A17**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000096270**

Well ID:	T0601300383-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=T0601300383&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=T0601300383&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=T0601300383&amp;assigned_name=MW-10">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0601300383&amp;assigned_name=MW-10</a>		

**18**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      CAEDF0000083080**

Well ID:	T0601300383-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=T0601300383&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=T0601300383&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=T0601300383&amp;assigned_name=MW-12">https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&amp;global_id=T0601300383&amp;assigned_name=MW-12</a>		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: CA Radon

### Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94583	41	3

Federal EPA Radon Zone for CONTRA COSTA County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.  
 : Zone 2 indoor average level  $\geq$  2 pCi/L and  $\leq$  4 pCi/L.  
 : Zone 3 indoor average level < 2 pCi/L.

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Federal Area Radon Information for Zip Code: 94583

Number of sites tested: 4

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.700 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Wetland Inventory

Source: Department of Fish and Wildlife

Telephone: 916-445-0411

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

## 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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## **APPENDIX B**

**FIRST AMERICAN TITLE COMPANY**

**Preliminary Title Report**



*First American Title*

## First American Title Company

4750 Willow Road, Suite 275  
Pleasanton, CA 94588

California Department of Insurance License No. 151

Escrow Officer: Diane Burton  
Phone: (925)738-4050  
Fax No.: (866)648-7806  
E-Mail: dburton@firstam.com

Title Officer: Sheryl Taylor  
Phone: (559)470-8819  
Fax No.:  
E-Mail: ShTaylor@firstam.com

E-Mail Loan Documents to: Lenders please contact the Escrow Officer for email address for sending loan documents.

Buyer: Trumark Properties LLC  
Owner: Sieva Property LLC  
Property: 2481 Deerwood Drive, APN: 208-640-003-9  
San Ramon, CA 94583

### PRELIMINARY REPORT

In response to the above referenced application for a policy of title insurance, this company hereby reports that it is prepared to issue, or cause to be issued, as of the date hereof, a Policy or Policies of Title Insurance describing the land and the estate or interest therein hereinafter set forth, insuring against loss which may be sustained by reason of any defect, lien or encumbrance not shown or referred to as an Exception below or not excluded from coverage pursuant to the printed Schedules, Conditions and Stipulations of said Policy forms.

The printed Exceptions and Exclusions from the coverage and Limitations on Covered Risks of said policy or policies are set forth in Exhibit A attached. *The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than that set forth in the arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties.* Limitations on Covered Risks applicable to the CLTA and ALTA Homeowner's Policies of Title Insurance which establish a Deductible Amount and a Maximum Dollar Limit of Liability for certain coverages are also set forth in Exhibit A. Copies of the policy forms should be read. They are available from the office which issued this report.

**Please read the exceptions shown or referred to below and the exceptions and exclusions set forth in Exhibit A of this report carefully. The exceptions and exclusions are meant to provide you with notice of matters which are not covered under the terms of the title insurance policy and should be carefully considered.**

**It is important to note that this preliminary report is not a written representation as to the condition of title and may not list all liens, defects, and encumbrances affecting title to the land.**

**Please be advised that any provision contained in this document, or in a document that is attached, linked or referenced in this document, that under applicable law illegally discriminates against a class of individuals based**

**upon personal characteristics such as race, color, religion, sex, sexual orientation, gender identity, familial status, disability, national origin, or any other legally protected class, is illegal and unenforceable by law.**

This report (and any supplements or amendments hereto) is issued solely for the purpose of facilitating the issuance of a policy of title insurance and no liability is assumed hereby. If it is desired that liability be assumed prior to the issuance of a policy of title insurance, a Binder or Commitment should be requested.



Dated as of July 28, 2021 at 7:30 A.M.

The form of Policy of title insurance contemplated by this report is:

ALTA Extended Loan Policy - 2006

ALTA Extended Owner Policy - 2006

A specific request should be made if another form or additional coverage is desired.

Title to said estate or interest at the date hereof is vested in:

SIEVA PROPERTY LLC, A CALIFORNIA LIMITED LIABILITY COMPANY

The estate or interest in the land hereinafter described or referred to covered by this Report is:

A fee as to Parcel(s) ONE, an easement as to Parcel(s) TWO.

The Land referred to herein is described as follows:

(See attached Legal Description)

At the date hereof exceptions to coverage in addition to the printed Exceptions and Exclusions in said policy form would be as follows:

1. General and special taxes and assessments for the fiscal year 2021-2022, a lien not yet due or payable.
2. The lien of supplemental taxes, if any, assessed pursuant to Chapter 3.5 commencing with Section 75 of the California Revenue and Taxation Code.
3. A right of way for ditches and canals as reserved by the United States of America in the patent recorded March 11, 1920 and May 26, 1923 in [Book 5 of Patents, Page 33](#) and [57](#).

The location of the easement cannot be determined from record information.

4. An easement for SPRING WATER and incidental purposes, recorded June 28, 1927 as [BOOK 89, PAGE 366](#) of Official Records.

In Favor of:                   HERBERT HIGTON, ET UX  
Affects:                         as described therein

The location of the easement cannot be determined from record information.

5. An easement for SPRING WATER and incidental purposes, recorded January 22, 1934 as [BOOK 347, PAGE 327](#) of Official Records.

In Favor of: SARAH G. EDWARDS, ET VIR  
Affects: as described therein

The location of the easement cannot be determined from record information.

6. An easement shown or dedicated on the Map as referred to in the legal description  
For: DRAINAGE and incidental purposes.
7. Abutter's rights of ingress and egress to or from CROW CANYON ROAD have been dedicated or relinquished on the filed Map.
8. The terms and provisions contained in the document entitled "LANDBANK AGREEMENT" recorded September 10, 1986 as INSTRUMENT NO. [1986-149339](#) IN BOOK 13112, PAGE 722 of Official Records.
9. The terms and provisions contained in the document entitled "ORDINANCE NO. 2008-27" recorded November 05, 2008 as INSTRUMENT NO. [2008-0243421](#) of Official Records.
10. A deed of trust to secure an original indebtedness of \$4,000,000.00 recorded June 15, 2018 as INSTRUMENT NO. [2018-095361](#) OF OFFICIAL RECORDS.  
Dated: June 12, 2018  
Trustor: SIEVA PROPERTY LLC, A CALIFORNIA LIMITED LIABILITY COMPANY  
Trustee: FIRST AMERICAN TITLE INSURANCE COMPANY  
Beneficiary: MORGAN STANLEY BANK, N.A.

The terms and provisions contained in the document entitled "HAZARDOUS SUBSTANCES CERTIFICATE AND INDEMNITY AGREEMENT" recorded June 15, 2018 as INSTRUMENT NO. [2018-095362](#) of Official Records.

The terms and provisions contained in the document entitled "SUBORDINATION, NON-DISTURBANCE AND ATTORNMENMENT AGREEMENT AND ESTOPPEL CERTIFICATE" recorded June 15, 2018 as INSTRUMENT NO. [2018-095363](#) of Official Records.

The terms and provisions contained in the document entitled "SUBORDINATION, NON-DISTURBANCE AND ATTORNMENMENT AGREEMENT AND ESTOPPEL CERTIFICATE" recorded June 15, 2018 as INSTRUMENT NO. [2018-095364](#) of Official Records.

11. A deed of trust to secure an original indebtedness of \$2,651,000.00 recorded July 05, 2018 as INSTRUMENT NO. [2018-106734](#) OF OFFICIAL RECORDS.  
Dated: June 07, 2018  
Trustor: SIEVA PROPERTY LLC, A CALIFORNIA LIMITED LIABILITY COMPANY  
Trustee: TICOR TITLE COMPANY OF CALIFORNIA  
Beneficiary: CDC SMALL BUSINESS FINANCE

According to the public records, the beneficial interest under the deed of trust was assigned to UNITED STATES SMALL BUSINESS ADMINISTRATION by assignment recorded July 05, 2018 as INSTRUMENT NO. [2018-106735](#) OF OFFICIAL RECORDS.

The terms and provisions contained in the document entitled "SUBORDINATION AGREEMENT" recorded July 05, 2018 as INSTRUMENT NO. [2018-106737](#) of Official Records.

The terms and provisions contained in the document entitled "SUBORDINATION AND NON-DISTURBANCE AGREEMENT" recorded July 05, 2018 as INSTRUMENT NO. [2018-106738](#) of Official Records.

12. The terms and provisions contained in the document entitled "THIRD PARTY LENDER AGREEMENT" recorded July 05, 2018 as INSTRUMENT NO. [2018-106739](#) of Official Records.
13. The fact that the land lies within the boundaries of the SAN RAMON Redevelopment Project Area, as disclosed by various documents of record.
14. Any easements and/or servitudes affecting easement parcel(s) TWO herein described.
15. Any claim that any portion of the land is below the ordinary high water mark where it was located prior to any artificial or avulsive changes in the location of the shoreline or riverbank.
16. Any rights, interests, or easements in favor of the public, which exist or are claimed to exist over any portion of said land covered by water, including a public right of access to the water.
17. Any claim that any portion of the land is or was formerly tidelands or submerged lands.
18. Water rights, claims or title to water, whether or not shown by the Public Records.
19. Any facts, rights, interests or claims which would be disclosed by a correct ALTA/NSPS survey.
20. Rights of parties in possession.

**Prior to the issuance of any policy of title insurance, the Company will require:**

21. An ALTA/NSPS survey of recent date which complies with the current minimum standard detail requirements for ALTA/NSPS land title surveys.

22. With respect to SIEVA PROPERTY LLC, A CALIFORNIA LIMITED LIABILITY COMPANY:
- a. A copy of its operating agreement and any amendments thereto;
  - b. If it is a California limited liability company, that a certified copy of its articles of organization (LLC-1) and any certificate of correction (LLC-11), certificate of amendment (LLC-2), or restatement of articles of organization (LLC-10) be recorded in the public records;
  - c. If it is a foreign limited liability company, that a certified copy of its application for registration (LLC-5) be recorded in the public records;
  - d. With respect to any deed, deed of trust, lease, subordination agreement or other document or instrument executed by such limited liability company and presented for recordation by the Company or upon which the Company is asked to rely, that such document or instrument be executed in accordance with one of the following, as appropriate:
    - (i) If the limited liability company properly operates through officers appointed or elected pursuant to the terms of a written operating agreement, such document must be executed by at least two duly elected or appointed officers, as follows: the chairman of the board, the president or any vice president, and any secretary, assistant secretary, the chief financial officer or any assistant treasurer;
    - (ii) If the limited liability company properly operates through a manager or managers identified in the articles of organization and/or duly elected pursuant to the terms of a written operating agreement, such document must be executed by at least two such managers or by one manager if the limited liability company properly operates with the existence of only one manager.
  - e. Other requirements which the Company may impose following its review of the material required herein and other information which the Company may require

**INFORMATIONAL NOTES**

Note: The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than the certain dollar amount set forth in any applicable arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties. If you desire to review the terms of the policy, including any arbitration clause that may be included, contact the office that issued this Commitment or Report to obtain a sample of the policy jacket for the policy that is to be issued in connection with your transaction.

1. General and special taxes and assessments for the fiscal year 2020-2021.

First Installment:	\$47,141.80, PAID
Penalty:	\$0.00
Second Installment:	\$47,141.80, PAID
Penalty:	\$0.00
Tax Rate Area:	17-002
A. P. No.:	208-640-003-9

2. According to the latest available equalized assessment roll in the office of the county tax assessor, there is located on the land a(n) Commercial Structure known as 2481 Deerwood Drive, San Ramon, California.
3. According to the public records, there has been no conveyance of the land within a period of twenty-four months prior to the date of this report, except as follows:

None

The map attached, if any, may or may not be a survey of the land depicted hereon. First American expressly disclaims any liability for loss or damage which may result from reliance on this map except to the extent coverage for such loss or damage is expressly provided by the terms and provisions of the title insurance policy, if any, to which this map is attached.

**LEGAL DESCRIPTION**

Real property in the City of San Ramon , County of Contra Costa, State of California, described as follows:

PARCEL ONE:

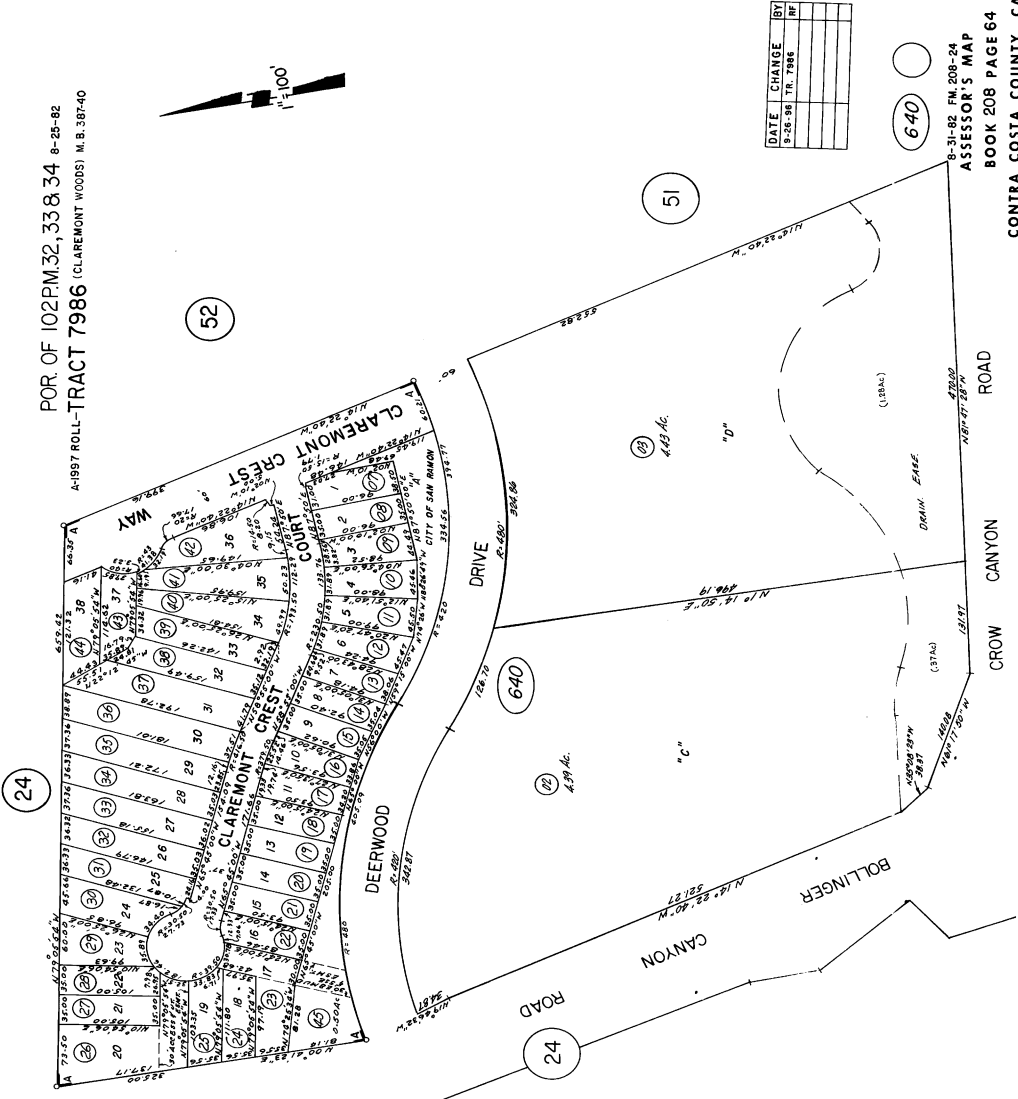
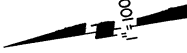
PARCEL D OF MS 67-81, FILED AUGUST 25, 1982, IN [BOOK 102 OF PARCEL MAPS, PAGE 32](#), CONTRA COSTA COUNTY RECORDS.

PARCEL TWO:

AN EASEMENT, NOT TO BE EXCLUSIVE, FOR ROADWAY AND UTILITY PURPOSES, TOGETHER WITH ALL RIGHTS INCIDENTAL THERETO, AS AN APPURTENANCE TO PARCEL ONE, LYING WITHIN THE STRIP OF LAND DESIGNATED AS "DEERWOOD DRIVE" ON SAID MAP (102 PM 32).

APN: 208-640-003-9

POR. OF 102PM:32,33 & 34 8-25-82  
A-1997 ROLL-TRACT 7986 (CLAREMONT WOODS) M.B. 387-40



8-31-82 FM 208-24  
ASSESSOR'S MAP  
BOOK 208 PAGE 64  
CONTRA COSTA COUNTY, CALIF.

***NOTICE***

Section 12413.1 of the California Insurance Code, effective January 1, 1990, requires that any title insurance company, underwritten title company, or controlled escrow company handling funds in an escrow or sub-escrow capacity, wait a specified number of days after depositing funds, before recording any documents in connection with the transaction or disbursing funds. This statute allows for funds deposited by wire transfer to be disbursed the same day as deposit. In the case of cashier's checks or certified checks, funds may be disbursed the next day after deposit. In order to avoid unnecessary delays of three to seven days, or more, please use wire transfer, cashier's checks, or certified checks whenever possible.



**EXHIBIT A**  
**LIST OF PRINTED EXCEPTIONS AND EXCLUSIONS (BY POLICY TYPE)**

**CLTA STANDARD COVERAGE POLICY – 1990**  
**EXCLUSIONS FROM COVERAGE**

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building or zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien, or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
- (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
  - (a) whether or not recorded in the public records at Date of Policy, but created, suffered, assumed or agreed to by the insured claimant;
  - (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
  - (c) resulting in no loss or damage to the insured claimant;
  - (d) attaching or created subsequent to Date of Policy; or
  - (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage or for the estate or interest insured by this policy.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with the applicable doing business laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any claim, which arises out of the transaction vesting in the insured the estate of interest insured by this policy or the transaction creating the interest of the insured lender, by reason of the operation of federal bankruptcy, state insolvency or similar creditors' rights laws.

**EXCEPTIONS FROM COVERAGE - SCHEDULE B, PART I**

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.  
Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof, not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.
6. Any lien or right to a lien for services, labor or material unless such lien is shown by the public records at Date of Policy.

**CLTA/ALTA HOMEOWNER'S POLICY OF TITLE INSURANCE (12-02-13)**  
**EXCLUSIONS**

In addition to the Exceptions in Schedule B, You are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of those portions of any law or government regulation concerning:
  - a. building;
  - b. zoning;
  - c. land use;

- d. improvements on the Land;
  - e. land division; and
  - f. environmental protection.
- This Exclusion does not limit the coverage described in Covered Risk 8.a., 14, 15, 16, 18, 19, 20, 23 or 27.
2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not limit the coverage described in Covered Risk 14 or 15.
  3. The right to take the Land by condemning it. This Exclusion does not limit the coverage described in Covered Risk 17.
  4. Risks:
    - a. that are created, allowed, or agreed to by You, whether or not they are recorded in the Public Records;
    - b. that are Known to You at the Policy Date, but not to Us, unless they are recorded in the Public Records at the Policy Date;
    - c. that result in no loss to You; or
    - d. that first occur after the Policy Date - this does not limit the coverage described in Covered Risk 7, 8.e., 25, 26, 27 or 28.
  5. Failure to pay value for Your Title.
  6. Lack of a right:
    - a. to any land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
    - b. in streets, alleys, or waterways that touch the Land.

This Exclusion does not limit the coverage described in Covered Risk 11 or 21.
  7. The transfer of the Title to You is invalid as a preferential transfer or as a fraudulent transfer or conveyance under federal bankruptcy, state insolvency, or similar creditors' rights laws.
  8. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
  9. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.

**LIMITATIONS ON COVERED RISKS**

Your insurance for the following Covered Risks is limited on the Owner's Coverage Statement as follows:  
For Covered Risk 16, 18, 19, and 21 Your Deductible Amount and Our Maximum Dollar Limit of Liability shown in Schedule A.  
The deductible amounts and maximum dollar limits shown on Schedule A are as follows:

	<u>Your Deductible Amount</u>	<u>Our Maximum Dollar Limit of Liability</u>
Covered Risk 16:	1% of Policy Amount Shown in Schedule A or \$2,500 (whichever is less)	\$10,000
Covered Risk 18:	1% of Policy Amount Shown in Schedule A or \$5,000 (whichever is less)	\$25,000
Covered Risk 19:	1% of Policy Amount Shown in Schedule A or \$5,000 (whichever is less)	\$25,000
Covered Risk 21:	1% of Policy Amount Shown in Schedule A or \$2,500 (whichever is less)	\$5,000

**2006 ALTA LOAN POLICY (06-17-06)**  
EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
  - (i) the occupancy, use, or enjoyment of the Land;
  - (ii) the character, dimensions, or location of any improvement erected on the Land;
  - (iii) the subdivision of land; or
  - (iv) environmental protection;

or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.

  - (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
  - (a) created, suffered, assumed, or agreed to by the Insured Claimant;
  - (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;

- (c) resulting in no loss or damage to the Insured Claimant;
  - (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13, or 14); or
  - (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
  5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.
  6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
    - (a) a fraudulent conveyance or fraudulent transfer, or
    - (b) a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
  7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

#### EXCEPTIONS FROM COVERAGE

[Except as provided in Schedule B - Part II, [t[or T]his policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of:

#### [PART I

[The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material unless such lien is shown by the Public Records at Date of Policy.

#### PART II

In addition to the matters set forth in Part I of this Schedule, the Title is subject to the following matters, and the Company insures against loss or damage sustained in the event that they are not subordinate to the lien of the Insured Mortgage:]

### 2006 ALTA OWNER'S POLICY (06-17-06)

#### EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
  - (i) the occupancy, use, or enjoyment of the Land;
  - (ii) the character, dimensions, or location of any improvement erected on the Land;
  - (iii) the subdivision of land; or
  - (iv) environmental protection;

or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.

- (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
  - (a) created, suffered, assumed, or agreed to by the Insured Claimant;
  - (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;

- (c) resulting in no loss or damage to the Insured Claimant;
  - (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 9 or 10); or
  - (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Title.
4. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction vesting the Title as shown in Schedule A, is
    - (a) a fraudulent conveyance or fraudulent transfer, or
    - (b) a preferential transfer for any reason not stated in Covered Risk 9 of this policy.
  5. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the deed or other instrument of transfer in the Public Records that vests Title as shown in Schedule A.

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

#### EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage, and the Company will not pay costs, attorneys' fees or expenses, that arise by reason of: [The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.
6. Any lien or right to a lien for services, labor or material unless such lien is shown by the Public Records at Date of Policy.
7. [Variable exceptions such as taxes, easements, CC&R's, etc. shown here.]

#### **ALTA EXPANDED COVERAGE RESIDENTIAL LOAN POLICY (07-26-10)**

#### EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
  - (i) the occupancy, use, or enjoyment of the Land;
  - (ii) the character, dimensions, or location of any improvement erected on the Land;
  - (iii) the subdivision of land; or
  - (iv) environmental protection;

or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.

(b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.

2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
  - (a) created, suffered, assumed, or agreed to by the Insured Claimant;
  - (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
  - (c) resulting in no loss or damage to the Insured Claimant;
  - (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27 or 28); or
  - (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law. This Exclusion does not modify or limit the coverage provided in Covered Risk 26.
6. Any claim of invalidity, unenforceability or lack of priority of the lien of the Insured Mortgage as to Advances or modifications made after the

Insured has Knowledge that the vestee shown in Schedule A is no longer the owner of the estate or interest covered by this policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11.

7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching subsequent to Date of Policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11(b) or 25.
8. The failure of the residential structure, or any portion of it, to have been constructed before, on or after Date of Policy in accordance with applicable building codes. This Exclusion does not modify or limit the coverage provided in Covered Risk 5 or 6.
9. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
  - (a) a fraudulent conveyance or fraudulent transfer, or
  - (b) a preferential transfer for any reason not stated in Covered Risk 27(b) of this policy.
10. Contamination, explosion, fire, flooding, vibration, fracturing, earthquake, or subsidence.
11. Negligence by a person or an Entity exercising a right to extract or develop minerals, water, or any other substances.



## Privacy Notice

**Effective:** October 1, 2019

**Notice Last Updated:** January 1, 2021

This Privacy Notice describes how First American Financial Corporation and its subsidiaries and affiliates (together referred to as "First American," "we," "us," or "our") collect, use, store, and share your information. This Privacy Notice applies to information we receive from you offline only, as well as from third parties, when you interact with us and/or use and access our services and products ("Products"). For more information about our privacy practices, including our online practices, please visit <https://www.firstam.com/privacy-policy/>. The practices described in this Privacy Notice are subject to applicable laws in the places in which we operate.

**What Type Of Information Do We Collect About You?** We collect a variety of categories of information about you. To learn more about the categories of information we collect, please visit <https://www.firstam.com/privacy-policy/>.

**How Do We Collect Your Information?** We collect your information: (1) directly from you; (2) automatically when you interact with us; and (3) from third parties, including business parties and affiliates.

**How Do We Use Your Information?** We may use your information in a variety of ways, including but not limited to providing the services you have requested, fulfilling your transactions, comply with relevant laws and our policies, and handling a claim. To learn more about how we may use your information, please visit <https://www.firstam.com/privacy-policy/>.

**How Do We Share Your Information?** We do not sell your personal information. We only share your information, including to subsidiaries, affiliates, and to unaffiliated third parties: (1) with your consent; (2) in a business transfer; (3) to service providers; and (4) for legal process and protection. To learn more about how we share your information, please visit <https://www.firstam.com/privacy-policy/>.

**How Do We Store and Protect Your Information?** The security of your information is important to us. That is why we take commercially reasonable steps to make sure your information is protected. We use our best efforts to maintain commercially reasonable technical, organizational, and physical safeguards, consistent with applicable law, to protect your information.

**How Long Do We Keep Your Information?** We keep your information for as long as necessary in accordance with the purpose for which it was collected, our business needs, and our legal and regulatory obligations.

**Your Choices** We provide you the ability to exercise certain controls and choices regarding our collection, use, storage, and sharing of your information. You can learn more about your choices by visiting <https://www.firstam.com/privacy-policy/>.

**International Jurisdictions:** Our Products are offered in the United States of America (US), and are subject to US federal, state, and local law. If you are accessing the Products from another country, please be advised that you may be transferring your information to us in the US, and you consent to that transfer and use of your information in accordance with this Privacy Notice. You also agree to abide by the applicable laws of applicable US federal, state, and local laws concerning your use of the Products, and your agreements with us.

We may change this Privacy Notice from time to time. Any and all changes to this Privacy Notice will be reflected on this page, and where appropriate provided in person or by another electronic method. **YOUR CONTINUED USE, ACCESS, OR INTERACTION WITH OUR PRODUCTS OR YOUR CONTINUED COMMUNICATIONS WITH US AFTER THIS NOTICE HAS BEEN PROVIDED TO YOU WILL REPRESENT THAT YOU HAVE READ AND UNDERSTOOD THIS PRIVACY NOTICE.**

**Contact Us** [dataprivacy@firstam.com](mailto:dataprivacy@firstam.com) or toll free at 1-866-718-0097.



### **For California Residents**

If you are a California resident, you may have certain rights under California law, including but not limited to the California Consumer Privacy Act of 2018 ("CCPA"). All phrases used in this section shall have the same meaning as those phrases are used under California law, including the CCPA.

**Right to Know.** You have a right to request that we disclose the following information to you: (1) the categories of **personal information** we have collected about or from you; (2) the categories of sources from which the **personal information** was collected; (3) the business or commercial purpose for such collection and/or disclosure; (4) the categories of third parties with whom we have shared your **personal information**; and (5) the specific pieces of your **personal information** we have collected. To submit a verified request for this information, go to our online privacy policy at [www.firstam.com/privacy-policy](http://www.firstam.com/privacy-policy) to submit your request or call toll-free at 1-866-718-0097. You may also designate an authorized agent to submit a request on your behalf by going to our online privacy policy at [www.firstam.com/privacy-policy](http://www.firstam.com/privacy-policy) to submit your request or by calling toll-free at 1-866-718-0097.

**Right of Deletion.** You also have a right to request that we delete the **personal information** we have collected from and about you. This right is subject to certain exceptions available under the CCPA and other applicable law. To submit a verified request for deletion, go to our online privacy policy at [www.firstam.com/privacy-policy](http://www.firstam.com/privacy-policy) to submit your request or call toll-free at 1-866-718-0097. You may also designate an authorized agent to submit a request on your behalf by going to our online privacy policy at [www.firstam.com/privacy-policy](http://www.firstam.com/privacy-policy) to submit your request or by calling toll-free at 1-866-718-0097.

**Verification Process.** For either a request to know or delete, we will verify your identity before responding to your request. To verify your identity, we will generally match the identifying information provided in your request with the information we have on file about you. Depending on the sensitivity of the information requested, we may also utilize more stringent verification methods to verify your identity, including but not limited to requesting additional information from you and/or requiring you to sign a declaration under penalty of perjury.

**Notice of Sale.** We do not sell California resident information, nor have we sold California resident information in the past 12 months. We have no actual knowledge of selling the information of minors under the age of 16.

**Right of Non-Discrimination.** You have a right to exercise your rights under California law, including under the CCPA, without suffering discrimination. Accordingly, First American will not discriminate against you in any way if you choose to exercise your rights under the CCPA.

**Notice of Collection.** To learn more about the categories of **personal information** we have collected about California residents over the last 12 months, please see "What Information Do We Collect About You" in <https://www.firstam.com/privacy-policy>. To learn about the sources from which we have collected that information, the business and commercial purpose for its collection, and the categories of third parties with whom we have shared that information, please see "How Do We Collect Your Information", "How Do We Use Your Information", and "How Do We Share Your Information" in <https://www.firstam.com/privacy-policy>.

**Notice of Sale.** We have not sold the **personal information** of California residents in the past 12 months.

**Notice of Disclosure.** To learn more about the categories of **personal information** we may have disclosed about California residents in the past 12 months, please see "How Do We Use Your Information" and "How Do We Share Your Information" in <https://www.firstam.com/privacy-policy>.



## **APPENDIX C**

**ENVIRONMENTAL DATA RESOURCES, INC.**

**Historical Topographic Map Report**



2481 Deerwood Drive

2481 Deerwood Drive

San Ramon, CA 94583

Inquiry Number: 6610051.4

August 06, 2021

# 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

08/06/21

**Site Name:**

2481 Deerwood Drive  
2481 Deerwood Drive  
San Ramon, CA 94583  
EDR Inquiry # 6610051.4

**Client Name:**

Engeo Inc.  
2010 Crow Canyon Place  
San Ramon, CA 94583  
Contact: Stephen Fallon



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Engeo 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>	P2021.002.116	<b>Latitude:</b>	37.773788 37° 46' 26" North
<b>Project:</b>	2481 Deerwood Drive	<b>Longitude:</b>	-121.994392 -121° 59' 40" West
		<b>UTM Zone:</b>	Zone 10 North
		<b>UTM X Meters:</b>	588561.36
		<b>UTM Y Meters:</b>	4181192.90
		<b>Elevation:</b>	638.42' above sea level

**Maps Provided:**

2012	1949, 1950
1999	1947
1996	1941, 1943
1980	1912, 1915
1973	1898, 1899
1968	1896
1959, 1961	
1953	

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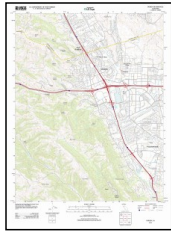
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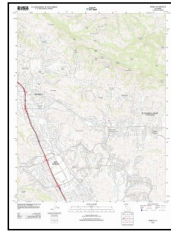
## Topo Sheet Key

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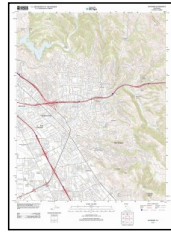
### 2012 Source Sheets



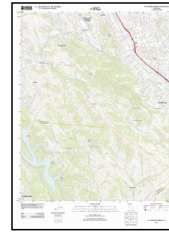
Dublin  
2012  
7.5-minute, 24000



Diablo  
2012  
7.5-minute, 24000



Hayward  
2012  
7.5-minute, 24000



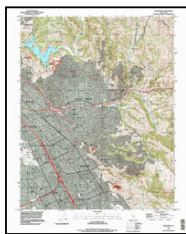
Las Trampas Ridge  
2012  
7.5-minute, 24000

### 1999 Source Sheets



Las Trampas Ridge  
1999  
7.5-minute, 24000  
Aerial Photo Revised 1993

### 1996 Source Sheets

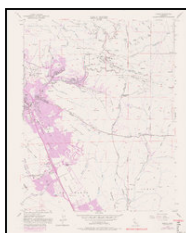


Hayward  
1996  
7.5-minute, 24000  
Aerial Photo Revised 1993



Las Trampas Ridge  
1996  
7.5-minute, 24000  
Aerial Photo Revised 1993

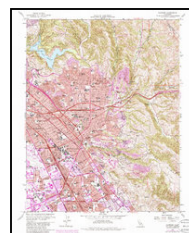
### 1980 Source Sheets



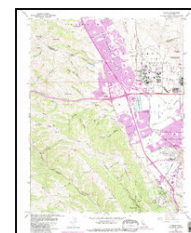
Diablo  
1980  
7.5-minute, 24000  
Aerial Photo Revised 1979



Las Trampas Ridge  
1980  
7.5-minute, 24000  
Aerial Photo Revised 1978



Hayward  
1980  
7.5-minute, 24000  
Aerial Photo Revised 1979



Dublin  
1980  
7.5-minute, 24000  
Aerial Photo Revised 1979

## Topo Sheet Key

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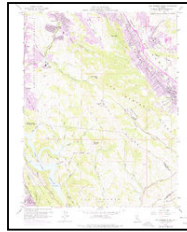
### 1973 Source Sheets



Diablo  
1973  
7.5-minute, 24000  
Aerial Photo Revised 1973



Hayward  
1973  
7.5-minute, 24000  
Aerial Photo Revised 1973



Las Trampas Ridge  
1973  
7.5-minute, 24000  
Aerial Photo Revised 1973

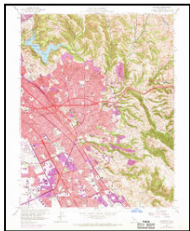


Dublin  
1973  
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Aerial Photo Revised 1973

### 1968 Source Sheets



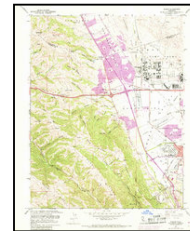
Diablo  
1968  
7.5-minute, 24000  
Aerial Photo Revised 1968



Hayward  
1968  
7.5-minute, 24000  
Aerial Photo Revised 1968

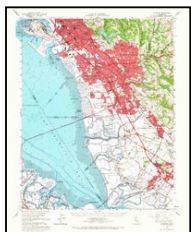


Las Trampas Ridge  
1968  
7.5-minute, 24000  
Aerial Photo Revised 1968

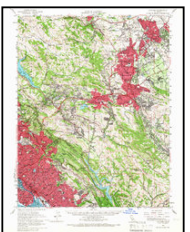


Dublin  
1968  
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Aerial Photo Revised 1968

### 1959, 1961 Source Sheets



Hayward  
1959  
15-minute, 62500  
Aerial Photo Revised 1958

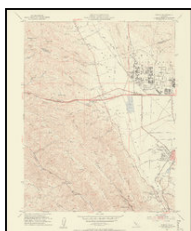


Concord  
1959  
15-minute, 62500  
Aerial Photo Revised 1958



Livermore  
1961  
15-minute, 62500

### 1953 Source Sheets



Dublin  
1953  
7.5-minute, 24000  
Aerial Photo Revised 1949

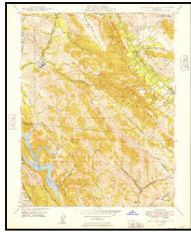


Diablo  
1953  
7.5-minute, 24000  
Aerial Photo Revised 1949

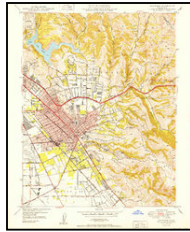
## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1949, 1950 Source Sheets



Las Trampas Ridge  
1949  
7.5-minute, 24000  
Aerial Photo Revised 1946



Hayward  
1950  
7.5-minute, 24000  
Aerial Photo Revised 1946

### 1947 Source Sheets

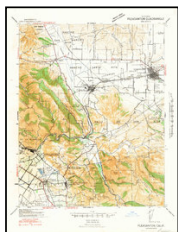


Hayward  
1947  
7.5-minute, 24000  
Aerial Photo Revised 1946

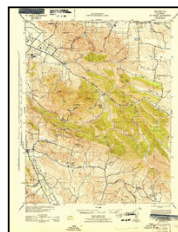


Las Trampas Ridge  
1947  
7.5-minute, 24000  
Aerial Photo Revised 1946

### 1941, 1943 Source Sheets



Pleasanton  
1941  
15-minute, 62500  
Aerial Photo Revised 1937

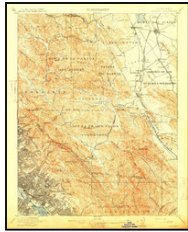


Mt. Diablo  
1943  
15-minute, 62500  
Aerial Photo Revised 1937

## Topo Sheet Key

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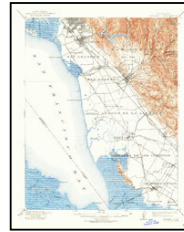
### 1912, 1915 Source Sheets



Concord  
1915  
15-minute, 62500



Haywards  
1915  
15-minute, 62500



Hayward  
1915  
15-minute, 62500

### 1898, 1899 Source Sheets



Mt. Diablo  
1898  
15-minute, 62500

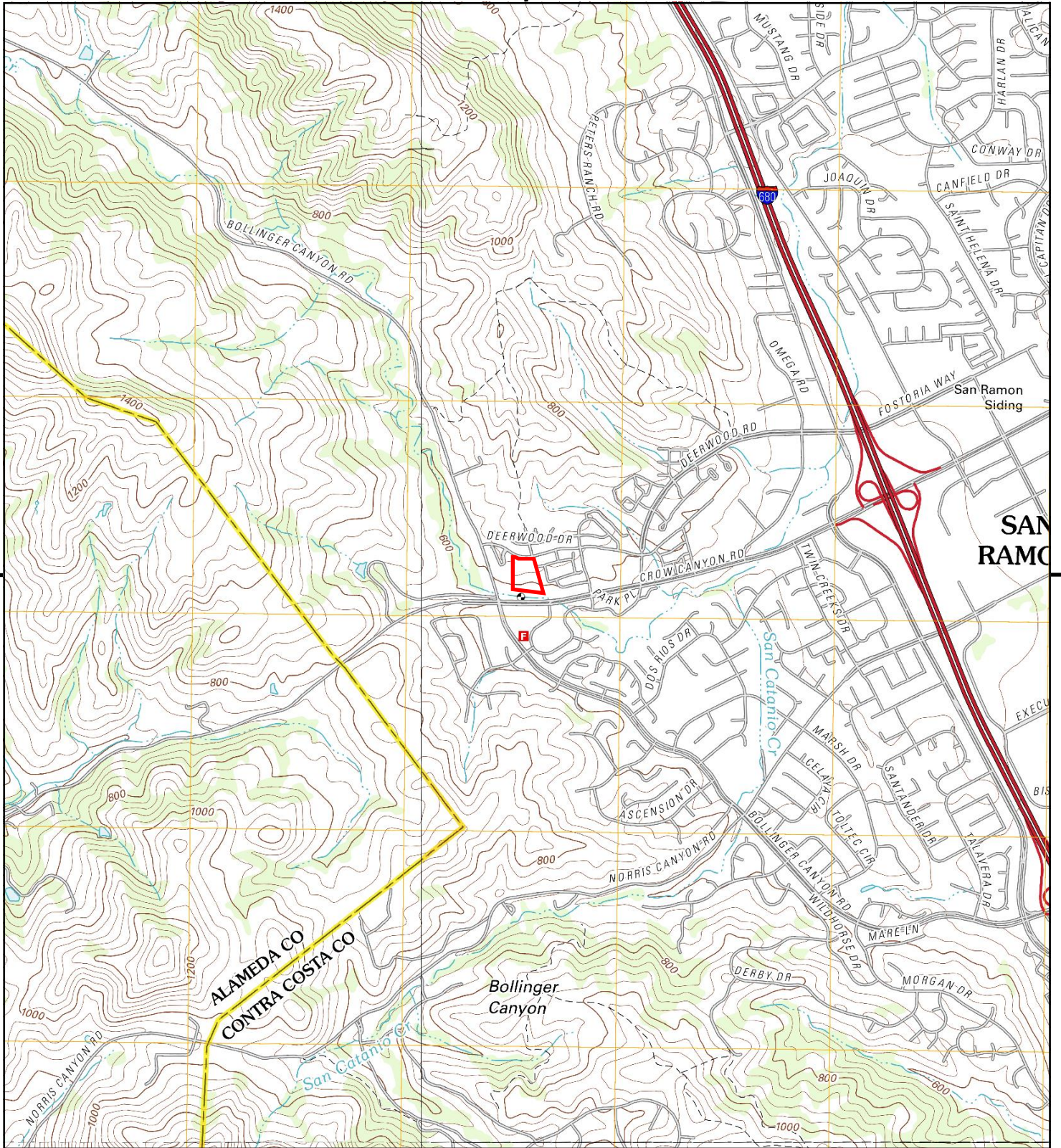


Haywards  
1899  
15-minute, 62500

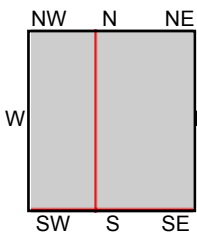
### 1896 Source Sheets



Mt. Diablo  
1896  
15-minute, 62500



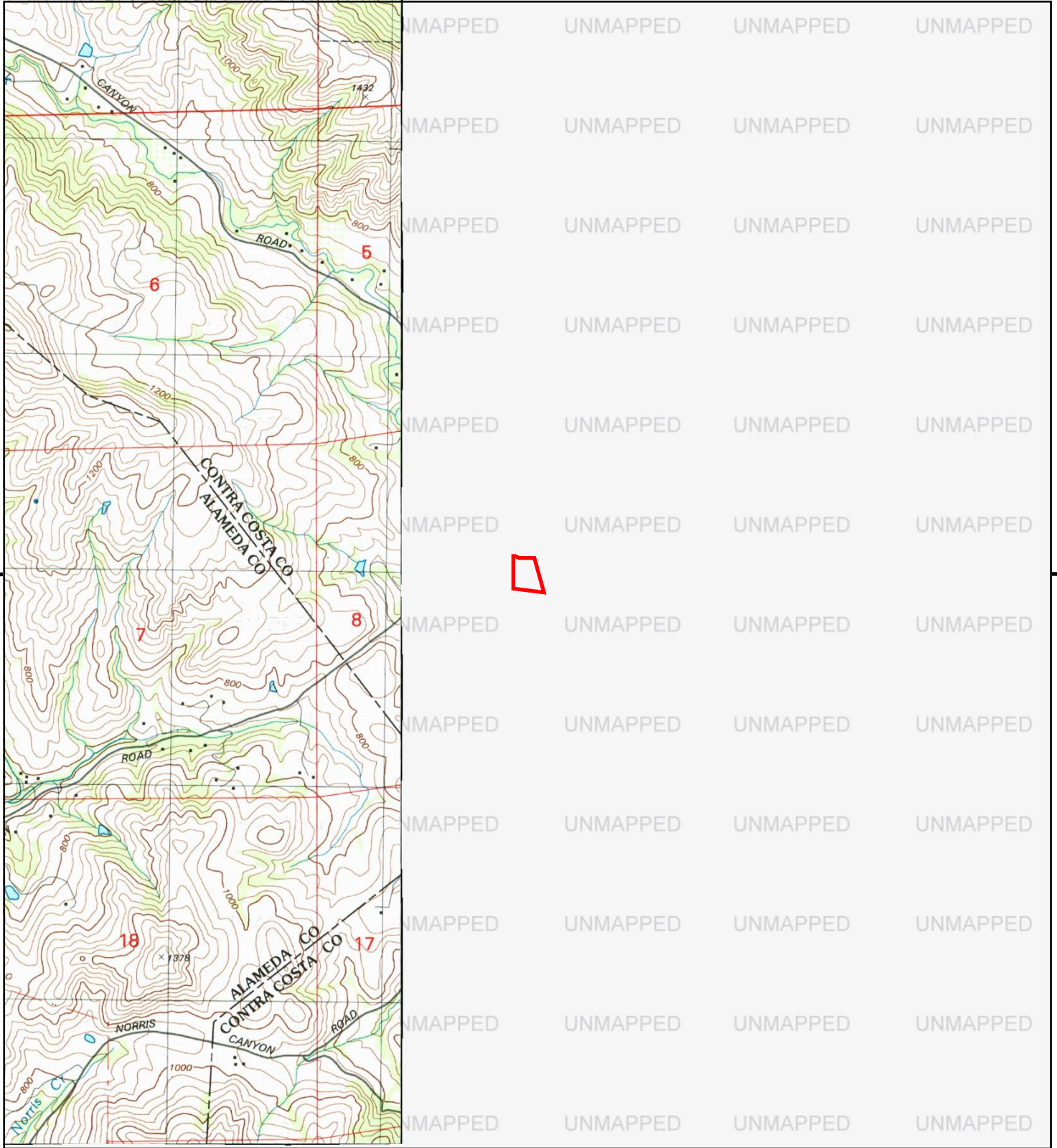
This report includes information from the following map sheet(s).



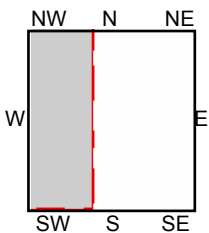
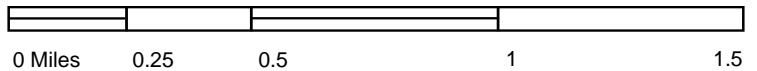
TP, Diablo, 2012, 7.5-minute  
 SE, Dublin, 2012, 7.5-minute  
 SW, Hayward, 2012, 7.5-minute  
 NW, Las Trampas Ridge, 2012, 7.5-minute

**SITE NAME:** 2481 Deerwood Drive  
**ADDRESS:** 2481 Deerwood Drive  
 San Ramon, CA 94583  
**CLIENT:** Engeo Inc.





This report includes information from the following map sheet(s).

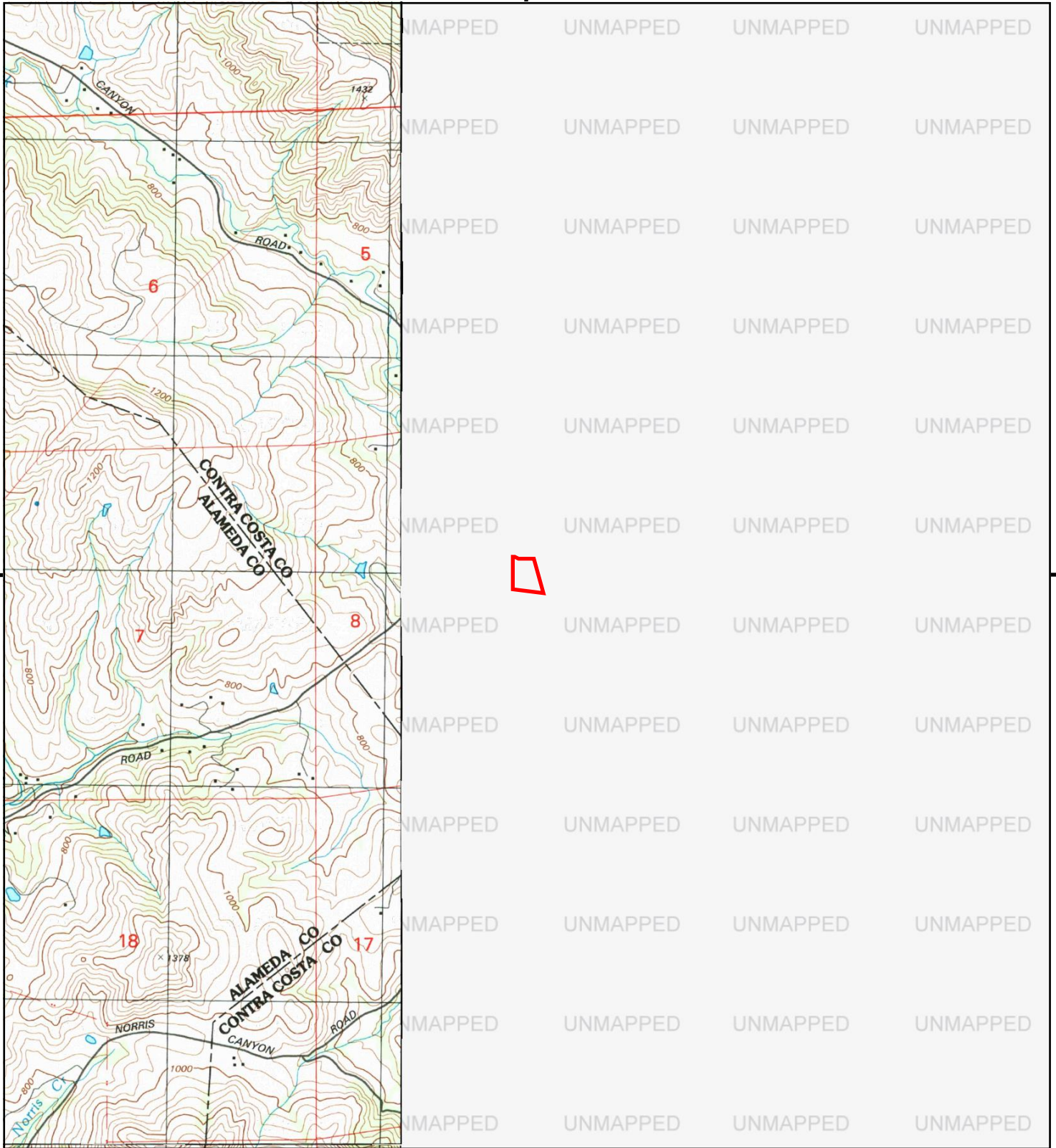


NW, Las Trampas Ridge, 1999, 7.5-minute

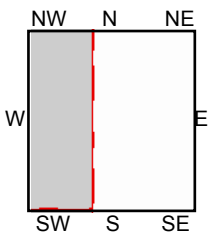
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 ADDRESS: 2481 Deerwood Drive  
 San Ramon, CA 94583  
 CLIENT: Engeo Inc.







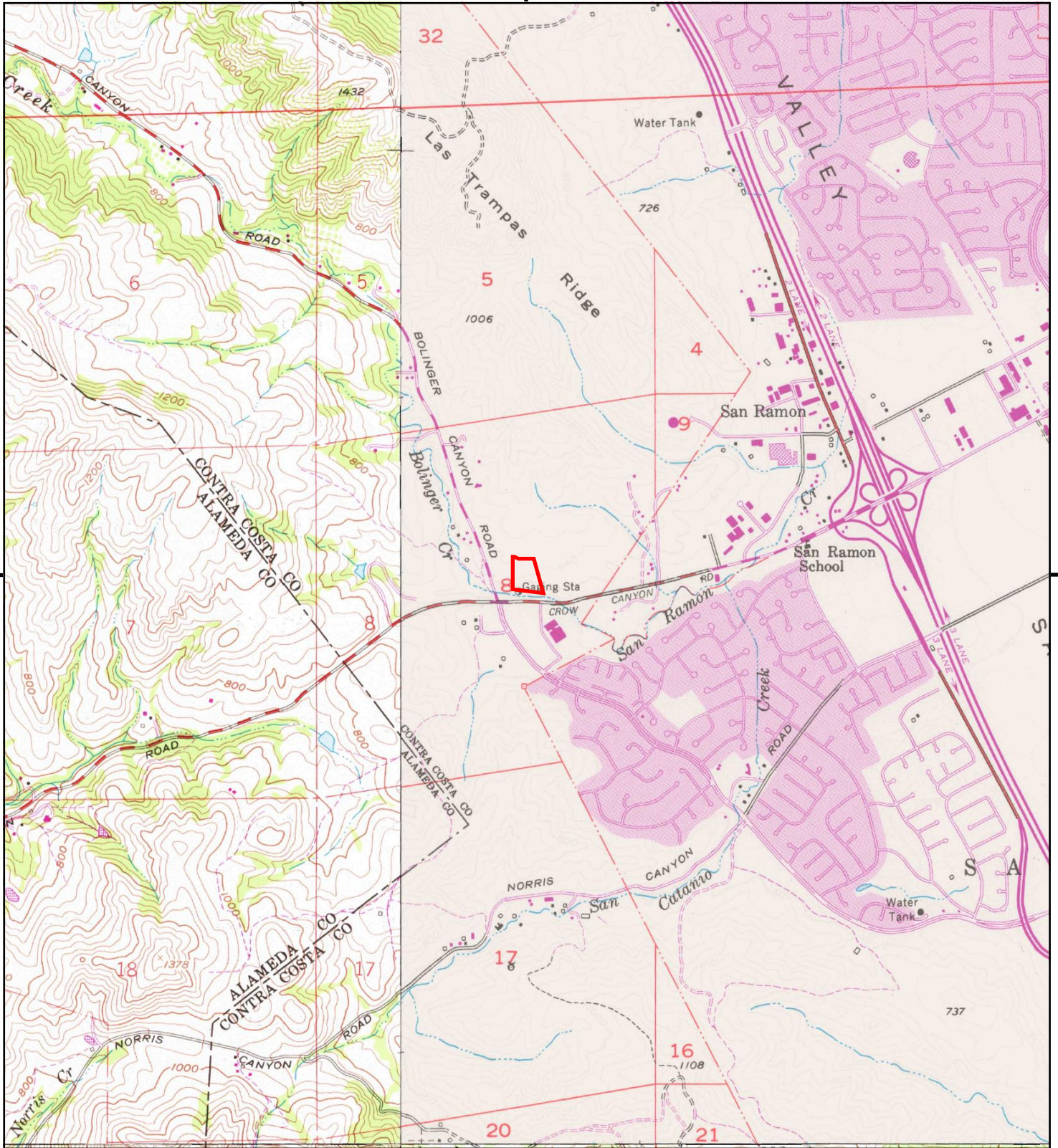
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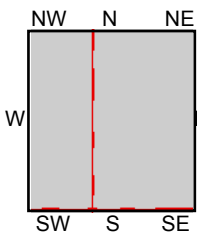
SW, Hayward, 1996, 7.5-minute  
 NW, Las Trampas Ridge, 1996, 7.5-minute

SITE NAME: 2481 Deerwood Drive  
 ADDRESS: 2481 Deerwood Drive  
 San Ramon, CA 94583  
 CLIENT: Engeo Inc.





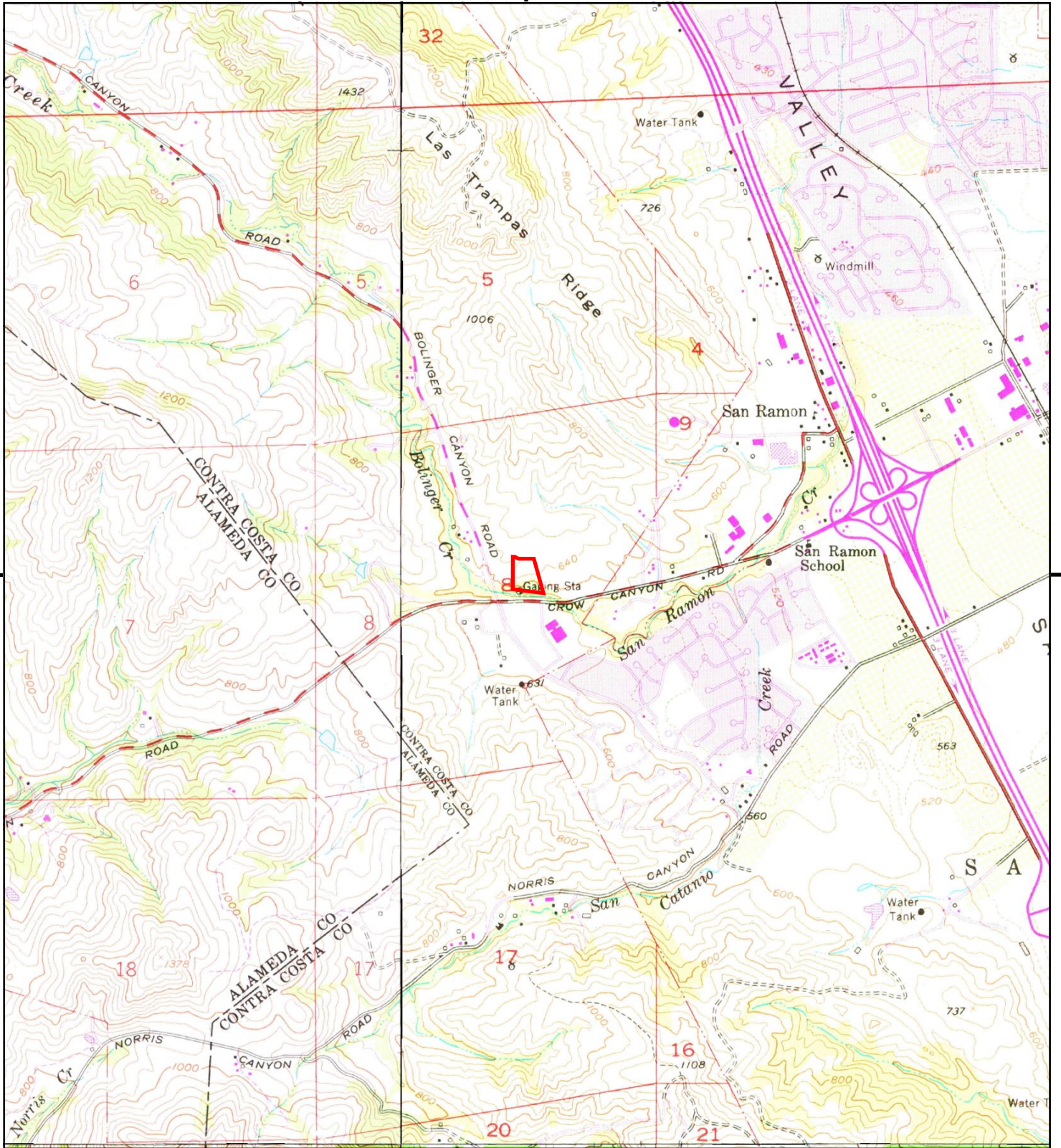
This report includes information from the following map sheet(s).



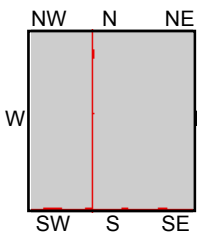
TP, Diablo, 1980, 7.5-minute  
 SE, Dublin, 1980, 7.5-minute  
 SW, Hayward, 1980, 7.5-minute  
 NW, Las Trampas Ridge, 1980, 7.5-minute

**SITE NAME:** 2481 Deerwood Drive  
**ADDRESS:** 2481 Deerwood Drive  
 San Ramon, CA 94583  
**CLIENT:** Engeo Inc.





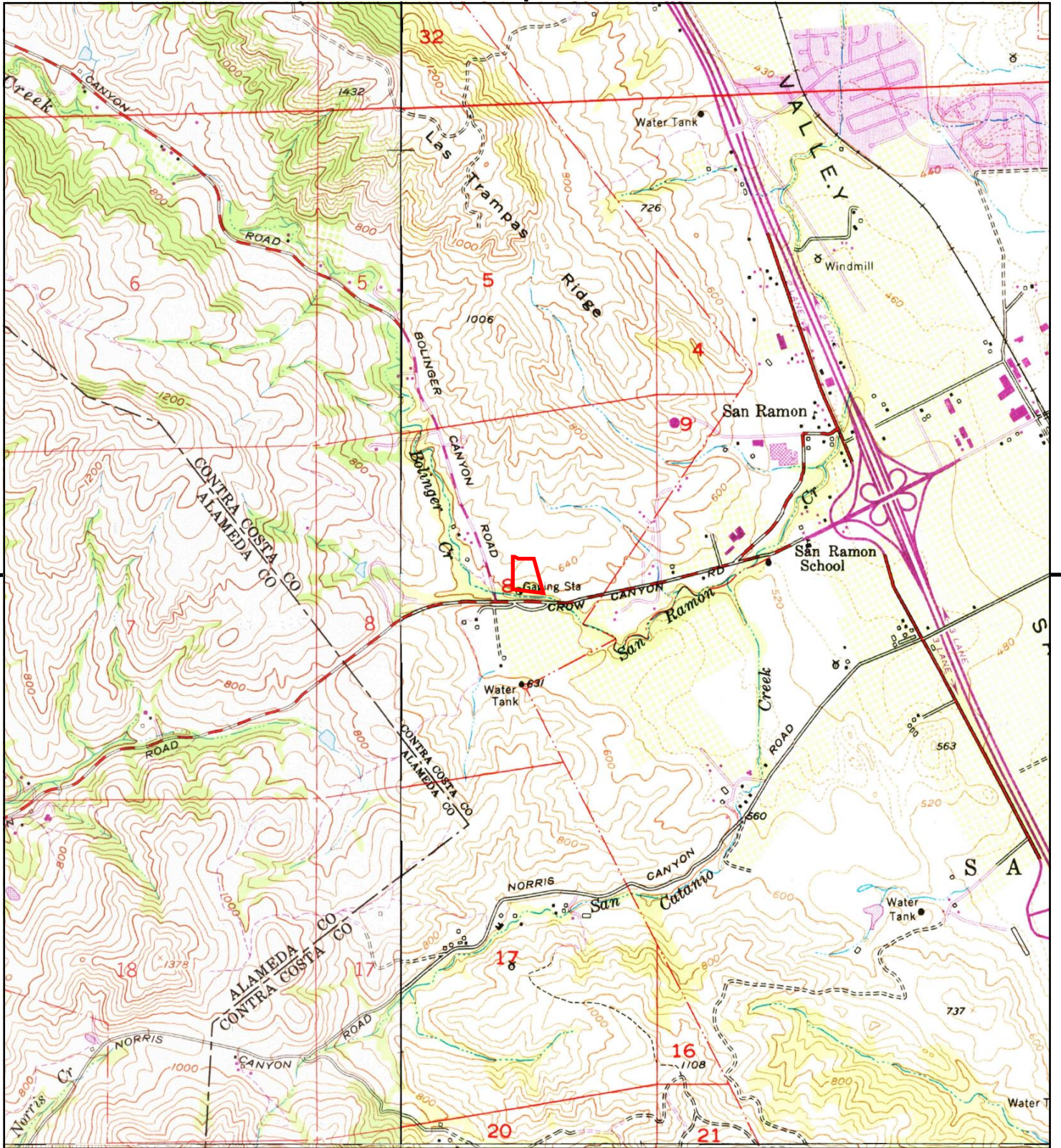
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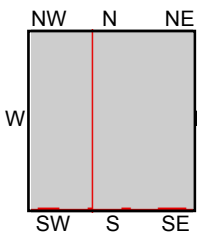
TP, Diablo, 1973, 7.5-minute  
 SE, Dublin, 1973, 7.5-minute  
 SW, Hayward, 1973, 7.5-minute  
 NW, Las Trampas Ridge, 1973, 7.5-minute

**SITE NAME:** 2481 Deerwood Drive  
**ADDRESS:** 2481 Deerwood Drive  
 San Ramon, CA 94583  
**CLIENT:** Engeo Inc.





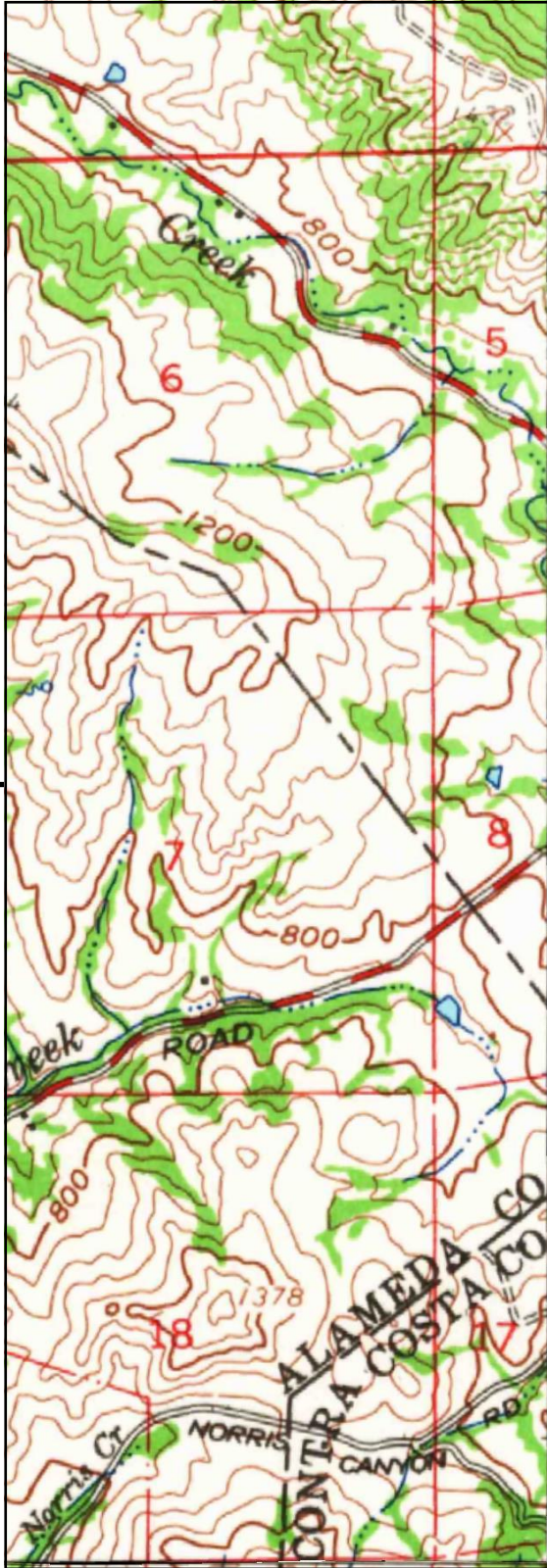
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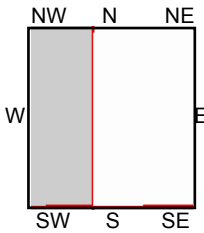
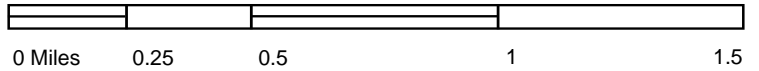
TP, Diablo, 1968, 7.5-minute  
 SE, Dublin, 1968, 7.5-minute  
 SW, Hayward, 1968, 7.5-minute  
 NW, Las Trampas Ridge, 1968, 7.5-minute

SITE NAME: 2481 Deerwood Drive  
 ADDRESS: 2481 Deerwood Drive  
 San Ramon, CA 94583  
 CLIENT: Engeo Inc.





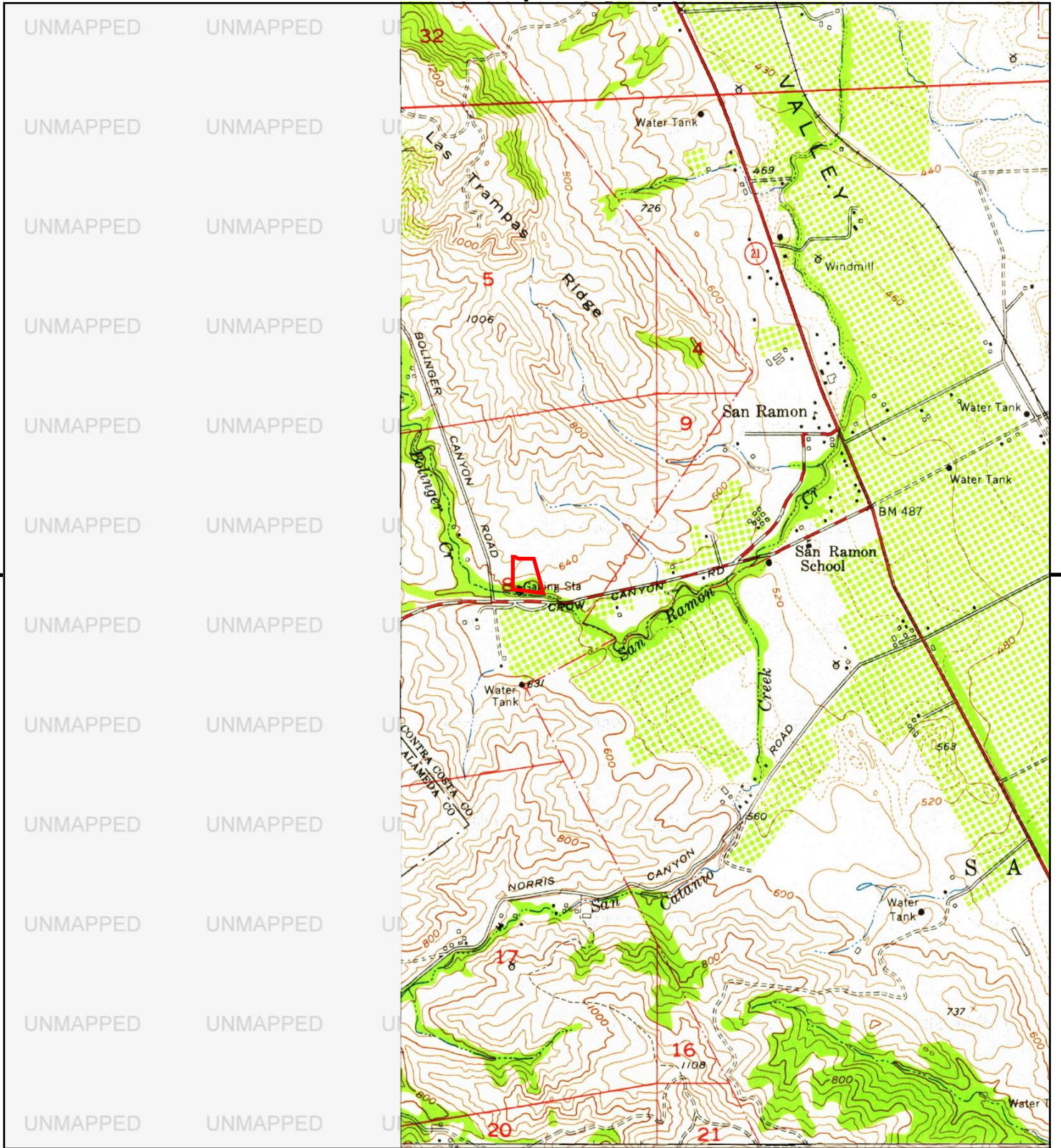
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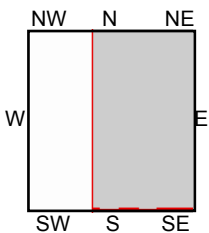
SE, Livermore, 1961, 15-minute  
 SW, Hayward, 1959, 15-minute  
 NW, Concord, 1959, 15-minute

SITE NAME: 2481 Deerwood Drive  
 ADDRESS: 2481 Deerwood Drive  
 San Ramon, CA 94583  
 CLIENT: Engeo Inc.





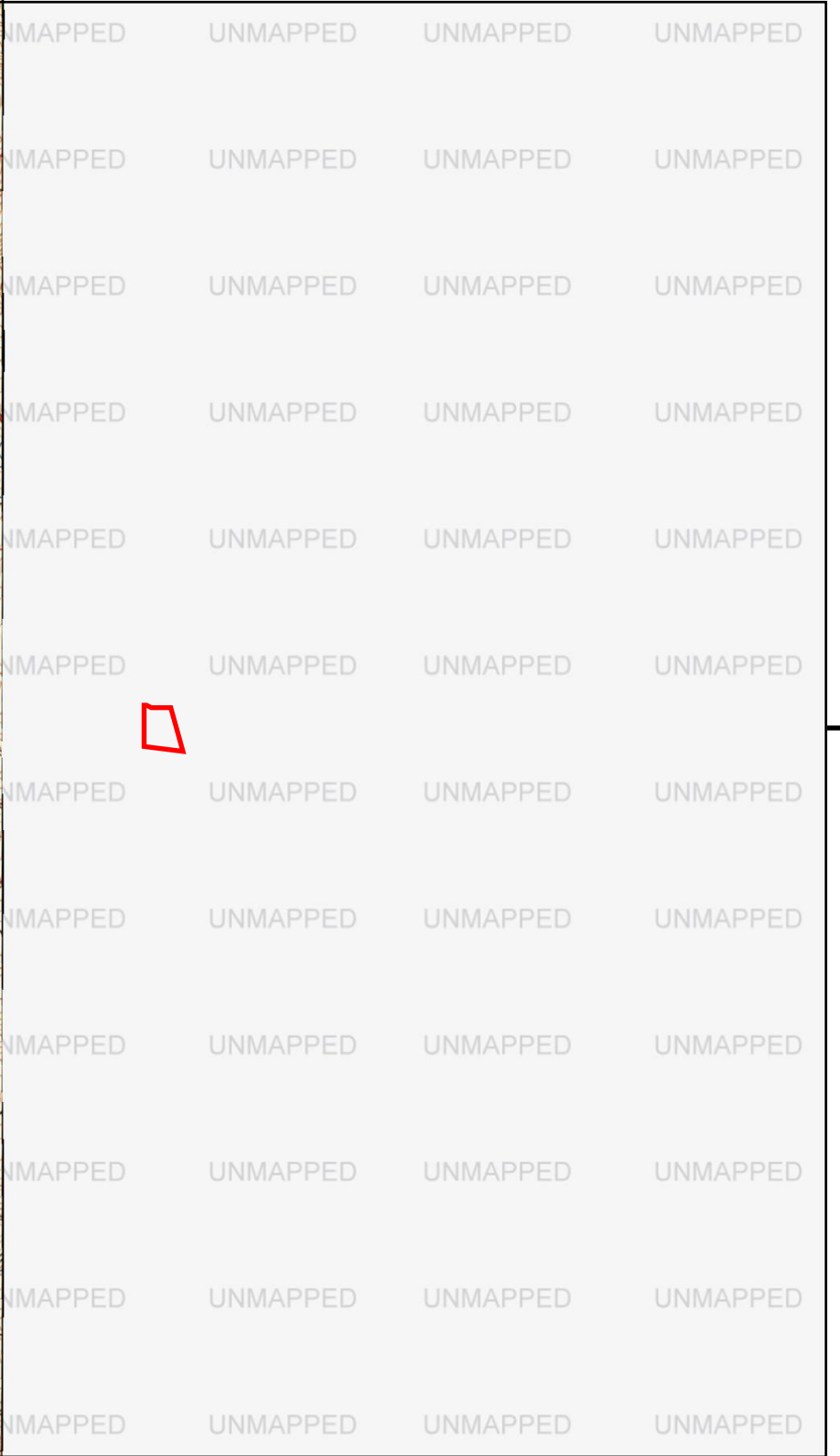
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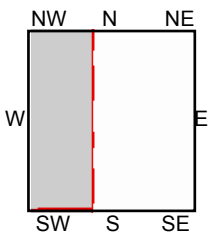
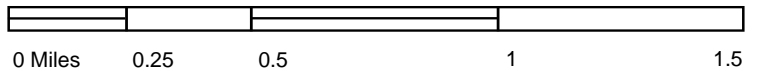
TP, Diablo, 1953, 7.5-minute  
SE, Dublin, 1953, 7.5-minute

**SITE NAME:** 2481 Deerwood Drive  
**ADDRESS:** 2481 Deerwood Drive  
San Ramon, CA 94583  
**CLIENT:** Engeo Inc.





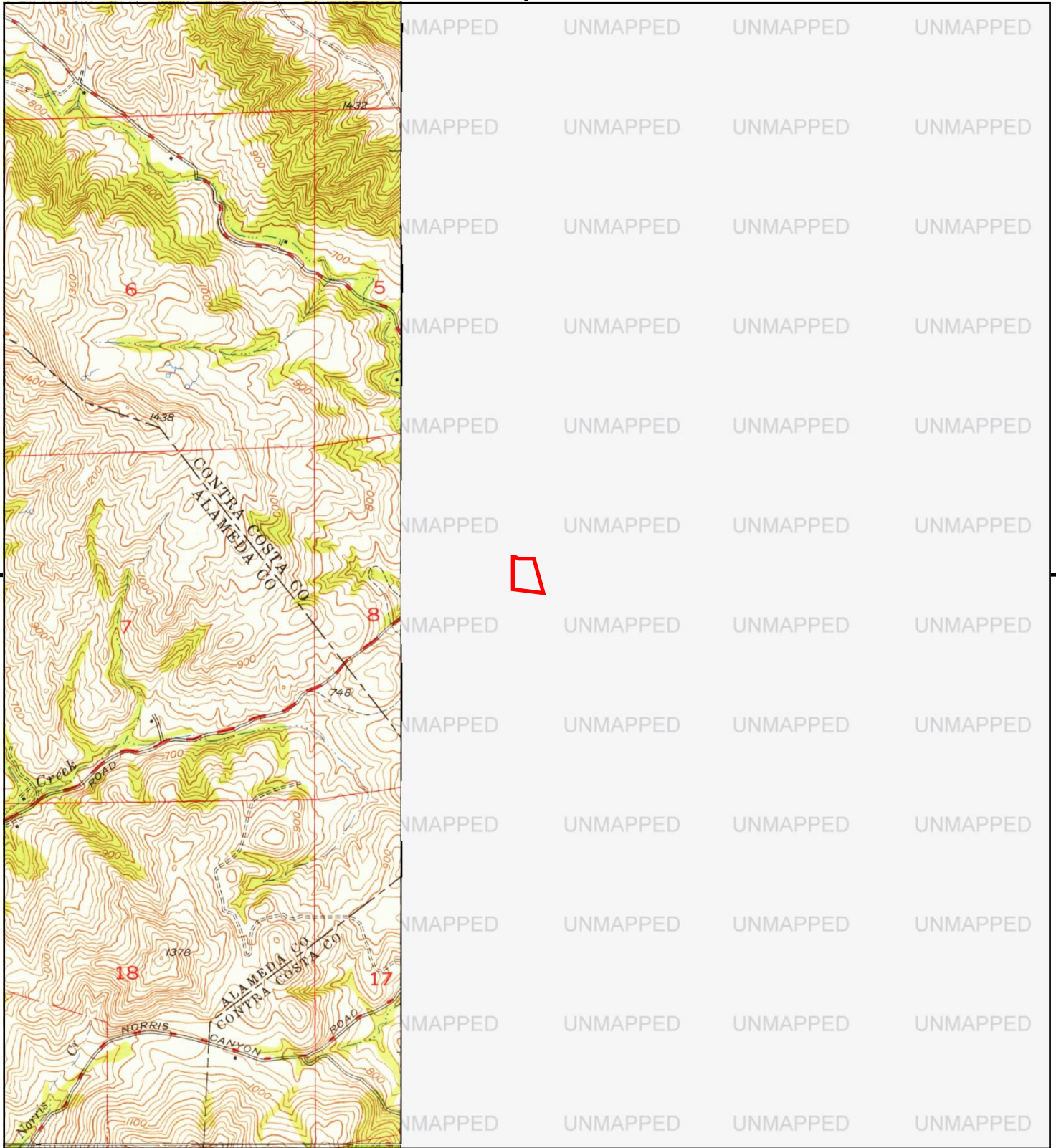
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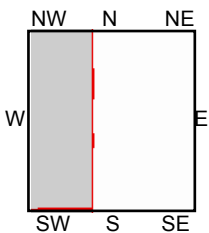
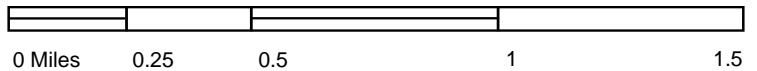
SW, Hayward, 1950, 7.5-minute  
 NW, Las Trampas Ridge, 1949, 7.5-minute

**SITE NAME:** 2481 Deerwood Drive  
**ADDRESS:** 2481 Deerwood Drive  
 San Ramon, CA 94583  
**CLIENT:** Engeo Inc.





This report includes information from the following map sheet(s).

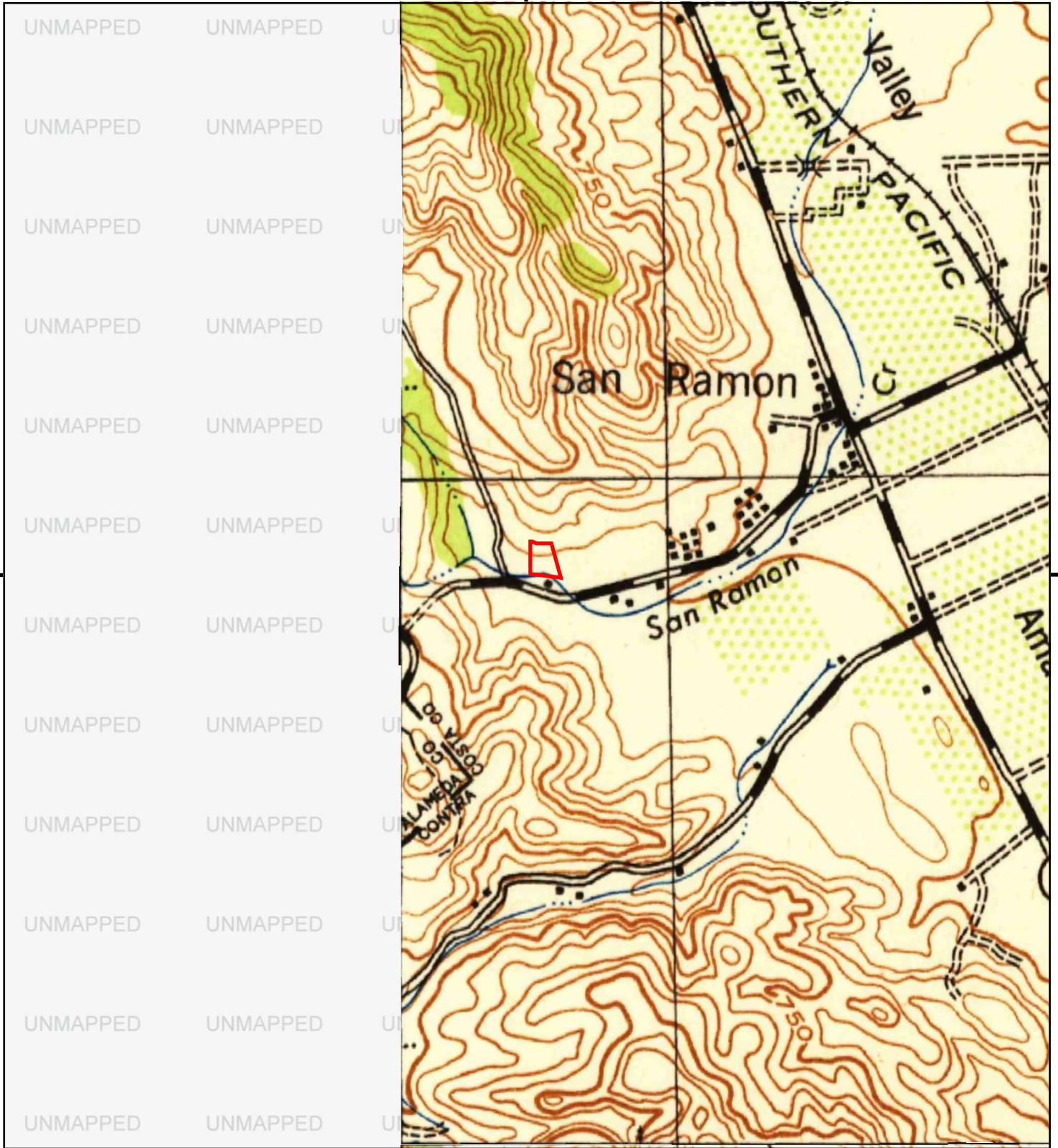


SW, Hayward, 1947, 7.5-minute  
 NW, Las Trampas Ridge, 1947, 7.5-minute

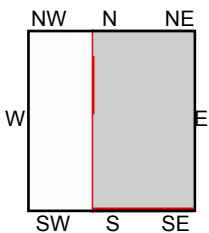
**SITE NAME:** 2481 Deerwood Drive  
**ADDRESS:** 2481 Deerwood Drive  
 San Ramon, CA 94583  
**CLIENT:** Engeo Inc.







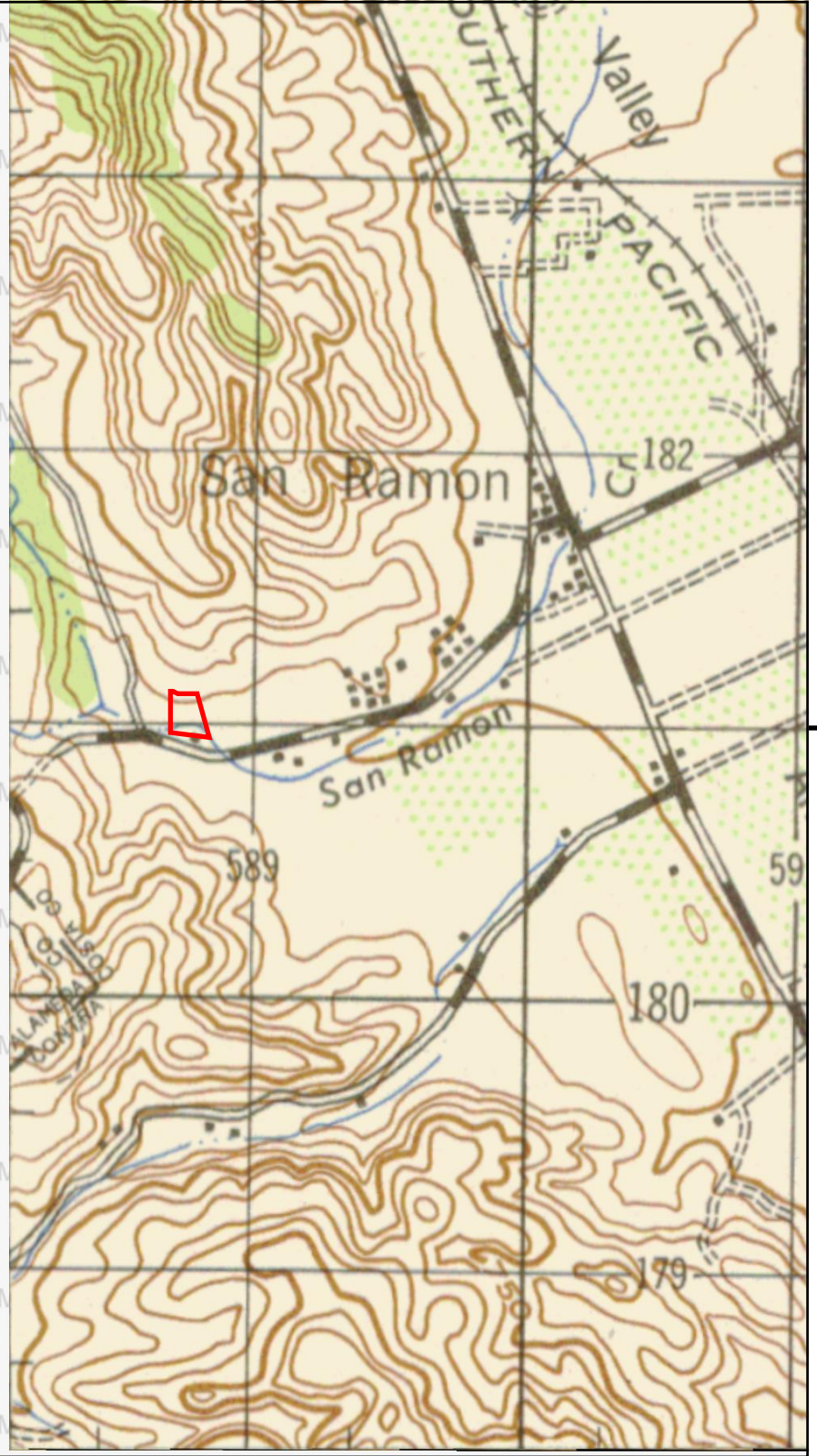
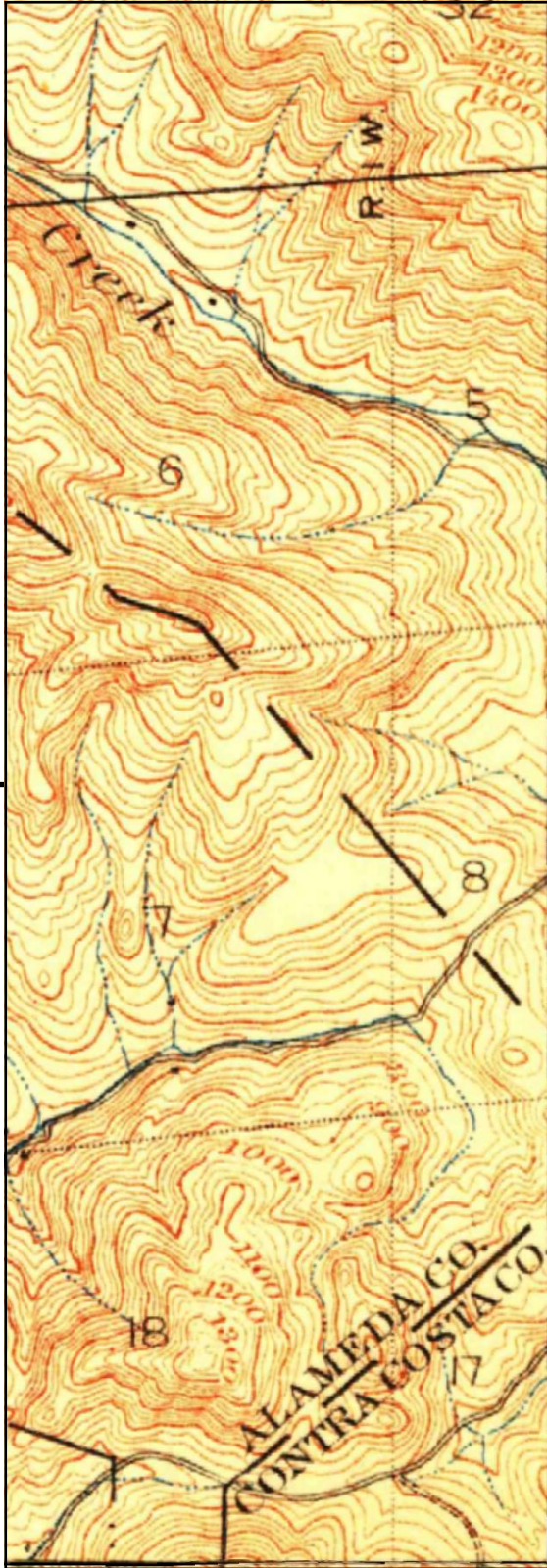
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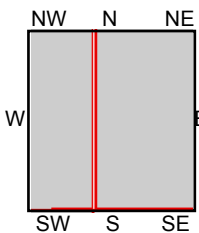
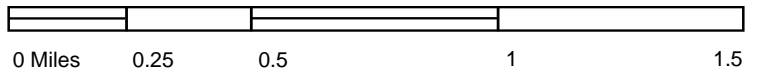
TP, Mt. Diablo, 1943, 15-minute  
SE, Pleasanton, 1941, 15-minute

SITE NAME: 2481 Deerwood Drive  
ADDRESS: 2481 Deerwood Drive  
San Ramon, CA 94583  
CLIENT: Engeo Inc.





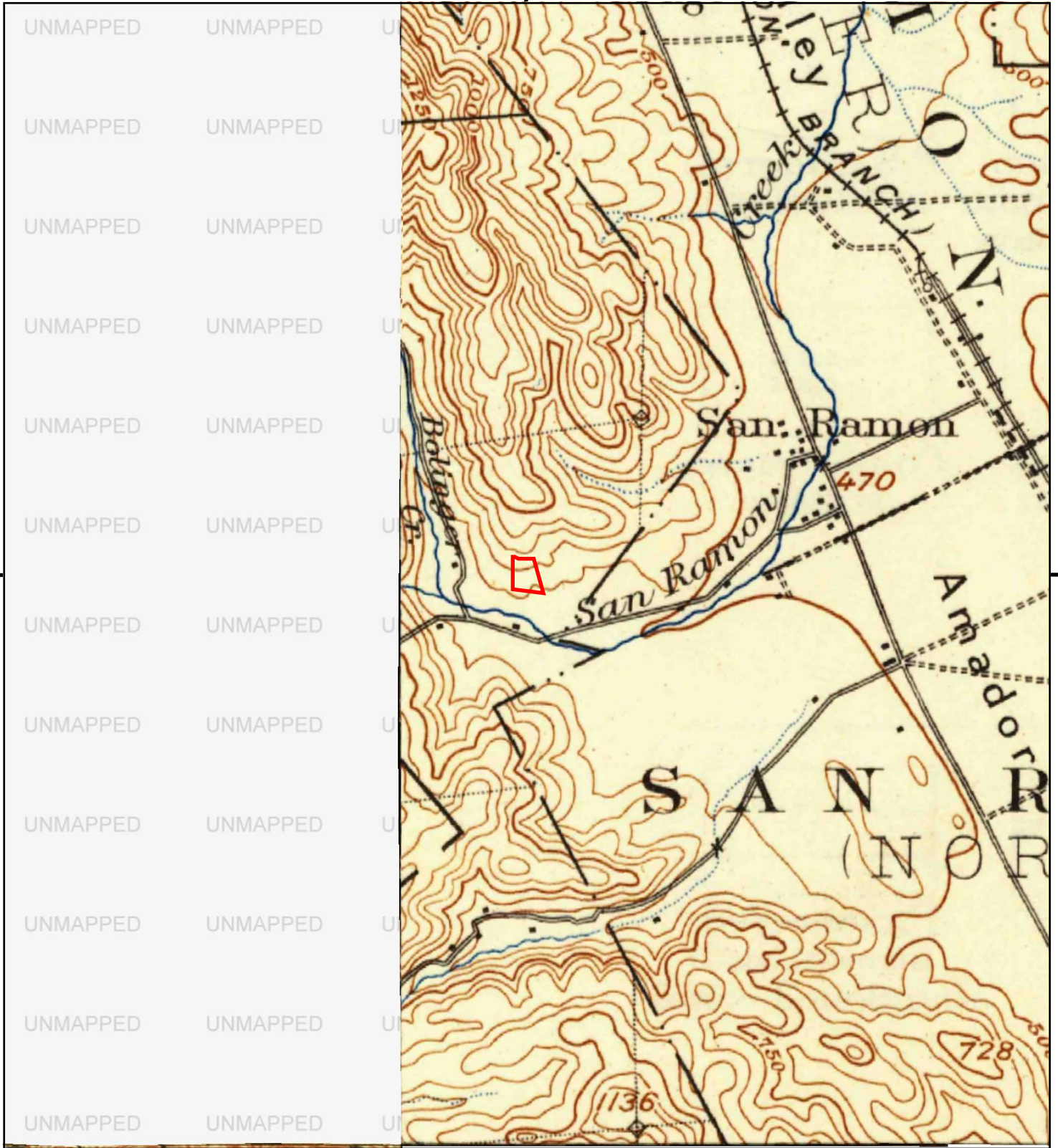
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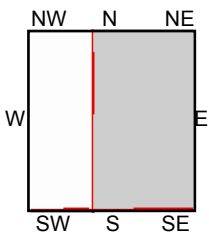
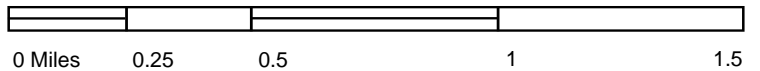
TP, MT. DIABLO, 1912, 15-minute  
 SW, Haywards, 1915, 15-minute  
 NW, Concord, 1915, 15-minute  
 SW, Hayward, 1915, 15-minute

SITE NAME: 2481 Deerwood Drive  
 ADDRESS: 2481 Deerwood Drive  
 San Ramon, CA 94583  
 CLIENT: Engeo Inc.





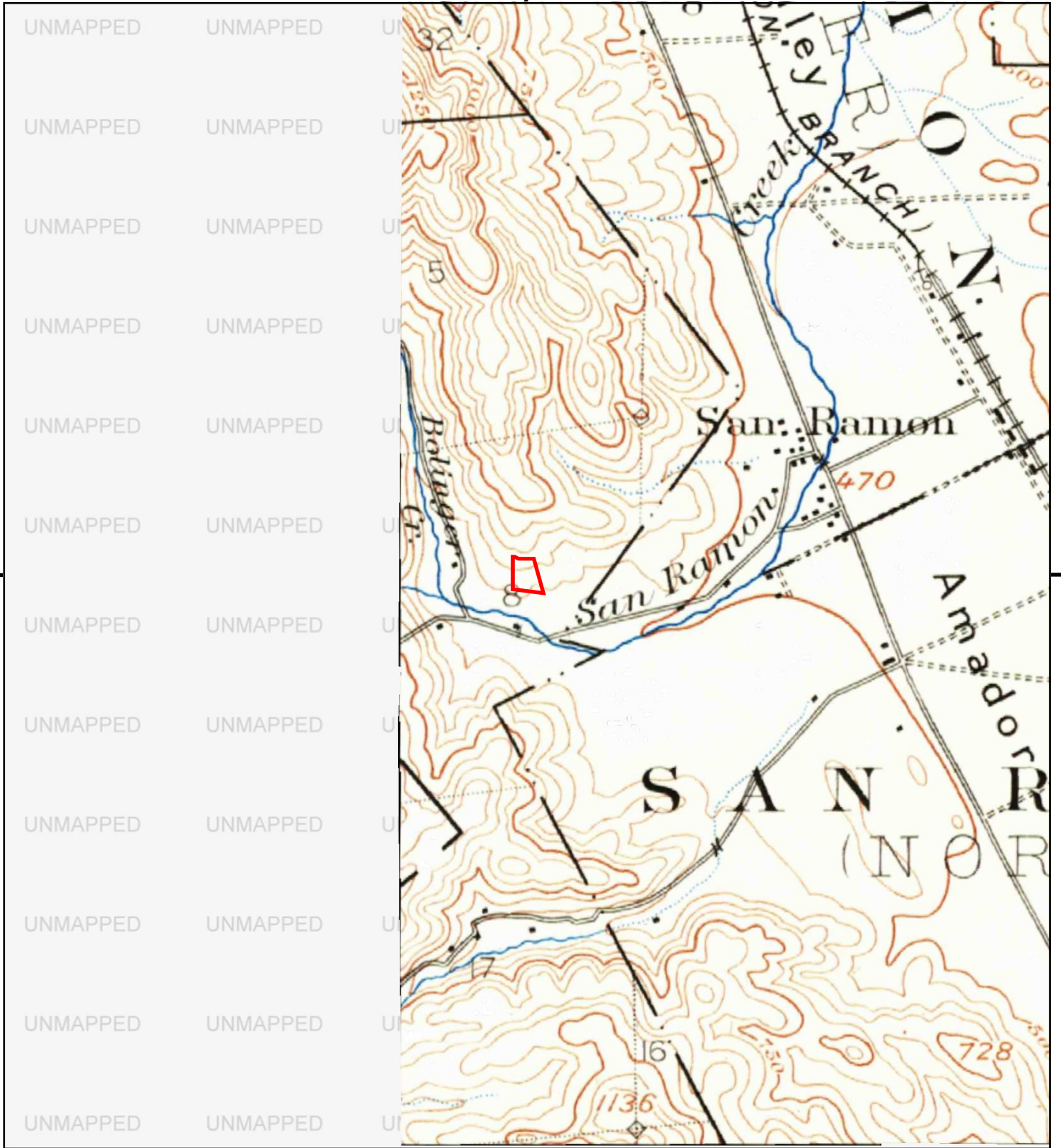
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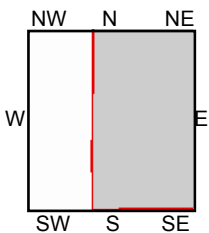
TP, Mt. Diablo, 1898, 15-minute  
 SW, Haywards, 1899, 15-minute

SITE NAME: 2481 Deerwood Drive  
 ADDRESS: 2481 Deerwood Drive  
 San Ramon, CA 94583  
 CLIENT: Engeo Inc.





This report includes information from the following map sheet(s).



TP, Mt. Diablo, 1896, 15-minute

SITE NAME: 2481 Deerwood Drive  
 ADDRESS: 2481 Deerwood Drive  
 San Ramon, CA 94583  
 CLIENT: Engeo Inc.





## **APPENDIX D**

**ENVIRONMENTAL DATA RESOURCES, INC.**

**Aerial Photo Decade Package**



**2481 Deerwood Drive**

2481 Deerwood Drive

San Ramon, CA 94583

Inquiry Number: 6610051.8

August 06, 2021

## The EDR Aerial Photo Decade Package



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

# EDR Aerial Photo Decade Package

08/06/21

**Site Name:**

2481 Deerwood Drive  
2481 Deerwood Drive  
San Ramon, CA 94583  
EDR Inquiry # 6610051.8

**Client Name:**

Engeo Inc.  
2010 Crow Canyon Place  
San Ramon, CA 94583  
Contact: Stephen Fallon



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

**Search Results:**

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1998	1"=500'	Flight Date: August 27, 1998	USDA
1993	1"=500'	Acquisition Date: January 01, 1993	USGS/DOQQ
1982	1"=500'	Flight Date: July 05, 1982	USDA
1979	1"=500'	Flight Date: August 16, 1979	USDA
1966	1"=500'	Flight Date: May 15, 1966	USDA
1963	1"=500'	Flight Date: July 17, 1963	EDR Proprietary Aerial Viewpoint
1958	1"=500'	Flight Date: July 21, 1958	USGS
1950	1"=500'	Flight Date: March 13, 1950	USDA
1949	1"=500'	Flight Date: November 12, 1949	USGS
1946	1"=500'	Flight Date: July 26, 1946	USGS
1939	1"=500'	Flight Date: July 25, 1939	USDA

**When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.**

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INQUIRY #: 6610051.8

YEAR: 2016

— = 500'





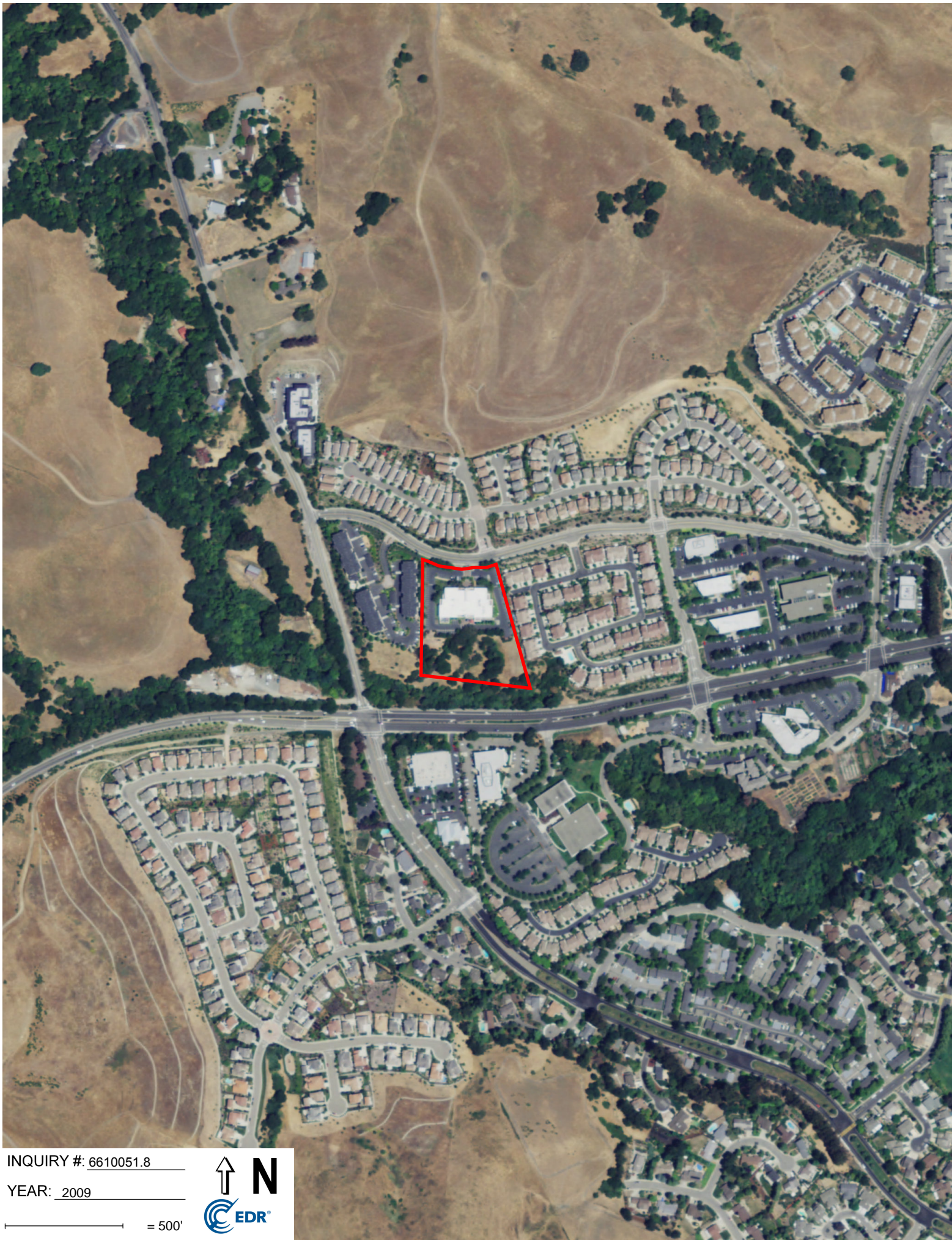


INQUIRY #: 6610051.8

YEAR: 2012

— = 500'



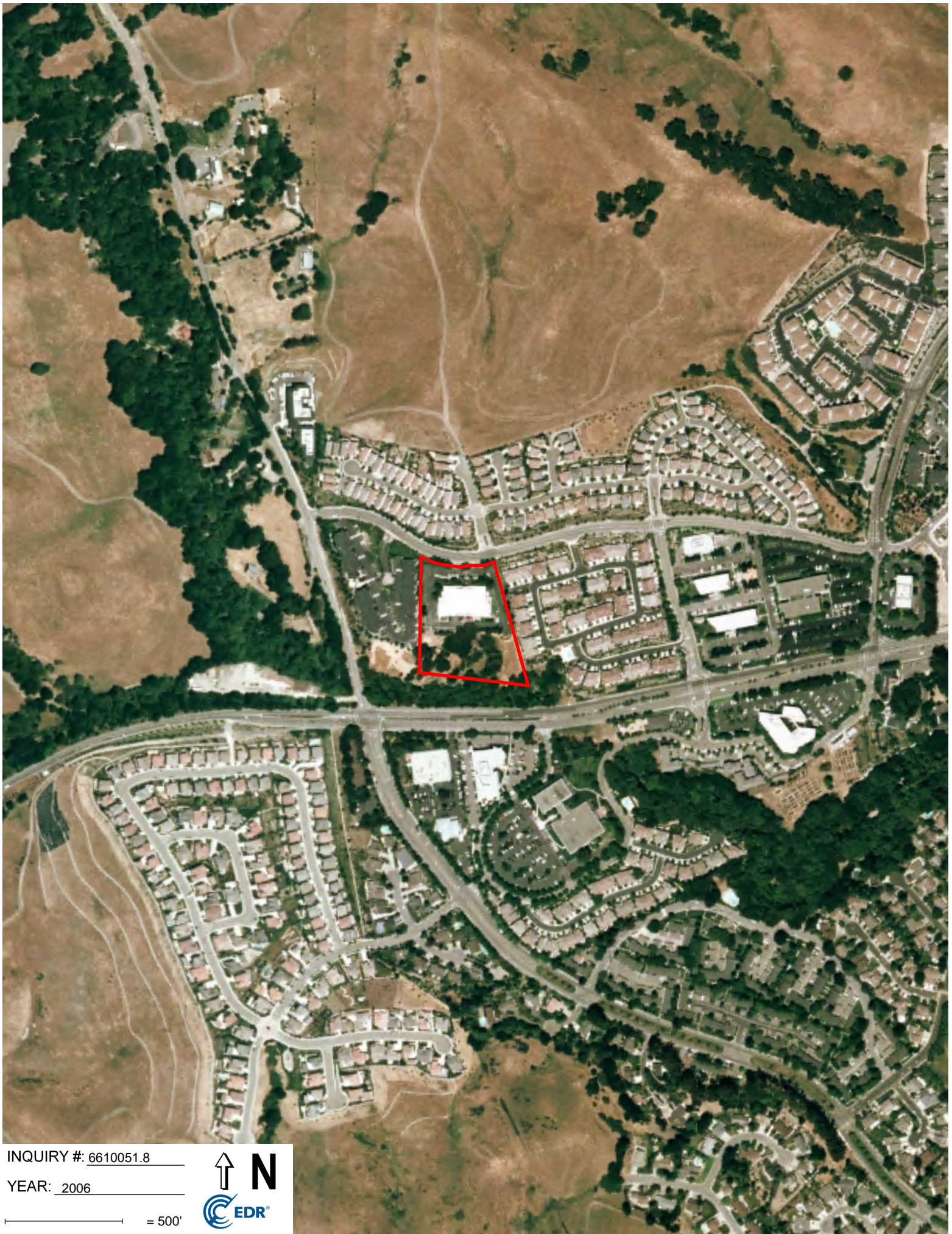


INQUIRY #: 6610051.8

YEAR: 2009

 = 500'





INQUIRY #: 6610051.8

YEAR: 2006

— = 500'



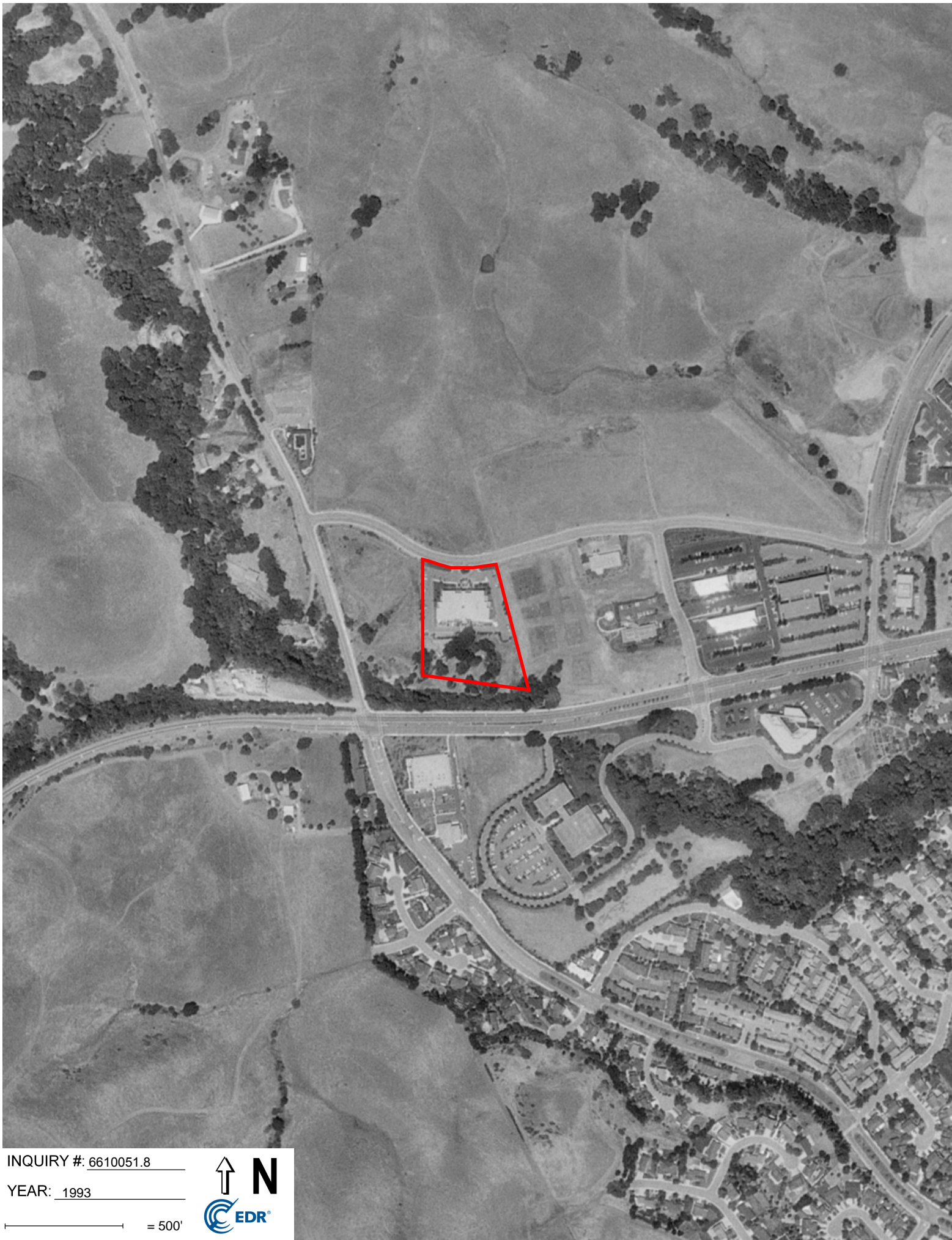


INQUIRY #: 6610051.8

YEAR: 1998

— = 500'





INQUIRY #: 6610051.8

YEAR: 1993

— = 500'





INQUIRY #: 6610051.8

YEAR: 1982

— = 500'





INQUIRY #: 6610051.8

YEAR: 1979

— = 500'





INQUIRY #: 6610051.8

YEAR: 1966

— = 500'







INQUIRY #: 6610051.8

YEAR: 1963

— = 500'





INQUIRY #: 6610051.8

YEAR: 1958

— = 500'





INQUIRY #: 6610051.8

YEAR: 1950

— = 500'



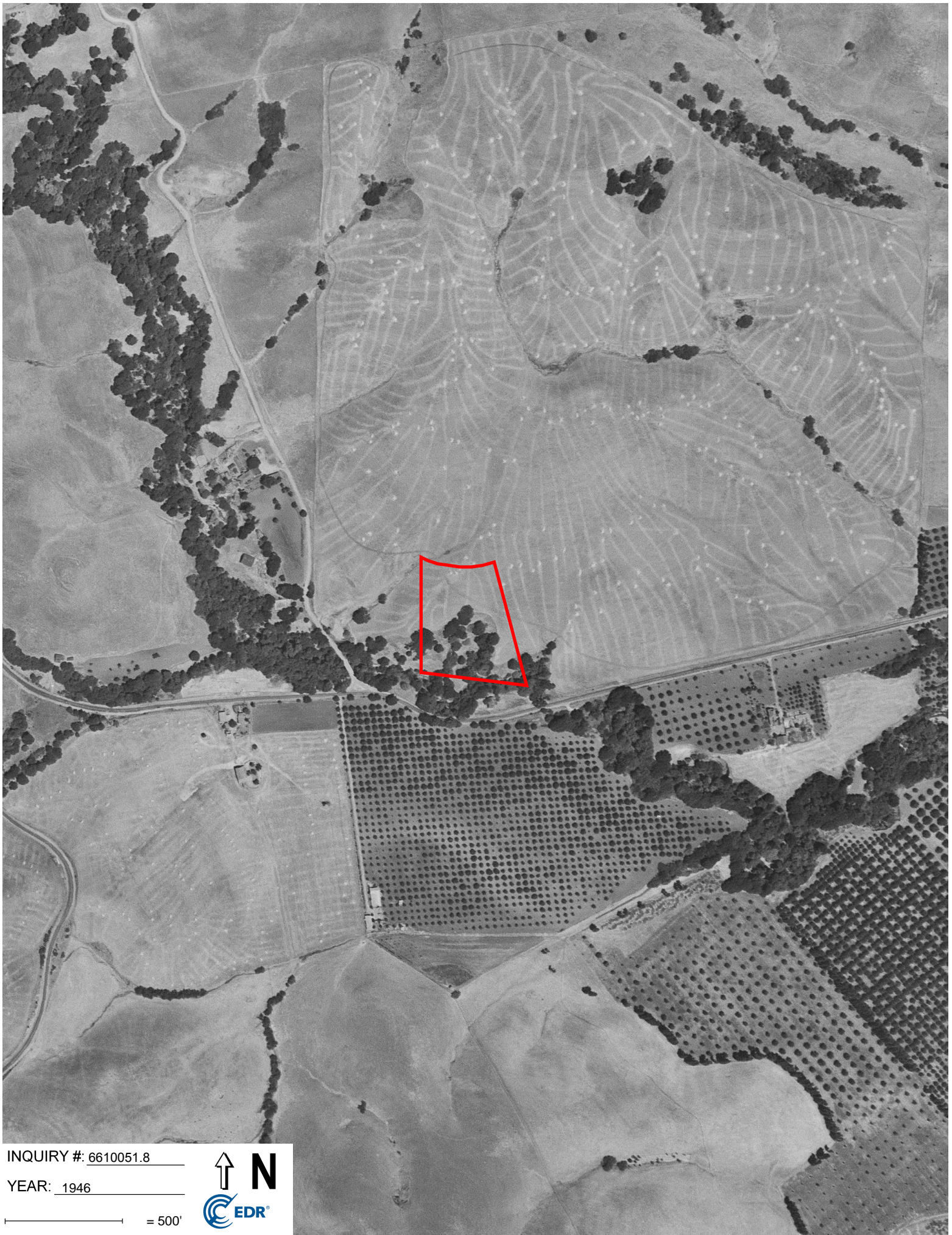


INQUIRY #: 6610051.8

YEAR: 1949

— = 500'





INQUIRY #: 6610051.8

YEAR: 1946

— = 500'





INQUIRY #: 6610051.8

YEAR: 1939

— = 500'





## **APPENDIX E**

**ENVIRONMENTAL DATA RESOURCES, INC.**

**Sanborn Map Report**

2481 Deerwood Drive  
2481 Deerwood Drive  
San Ramon, CA 94583

Inquiry Number: 6610051.3

August 06, 2021

## 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

08/06/21

**Site Name:**

2481 Deerwood Drive  
2481 Deerwood Drive  
San Ramon, CA 94583  
EDR Inquiry # 6610051.3

**Client Name:**

Engeo Inc.  
2010 Crow Canyon Place  
San Ramon, CA 94583  
Contact: Stephen Fallon



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Engeo 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 #** FEF8-4DE1-9CFF  
**PO #** P2021.002.116  
**Project** 2481 Deerwood Drive

### UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: FEF8-4DE1-9CFF

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

*The Sanborn Library LLC Since 1866™*

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## **APPENDIX F**

**ENVIRONMENTAL DATA RESOURCES, INC.**

**City Directory**

**2481 Deerwood Drive**

2481 Deerwood Drive  
San Ramon, CA 94583

Inquiry Number: 6610051.5

August 12, 2021

# The EDR-City Directory Image Report

## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

City Directory Images

*Thank you for your business.*

Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

### RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2017	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2014	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2010	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1995	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1992	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1990	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1985	<input type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1980	<input type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1975	<input type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory

## FINDINGS

### TARGET PROPERTY STREET

2481 Deerwood Drive  
San Ramon, CA 94583

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

### DEERWOOD DR

2017	pg A1	EDR Digital Archive	
2014	pg A2	EDR Digital Archive	
2010	pg A3	EDR Digital Archive	
2005	pg A4	EDR Digital Archive	
2000	pg A5	EDR Digital Archive	
1995	pg A6	EDR Digital Archive	
1992	pg A7	EDR Digital Archive	
1990	pg A8	Haines Criss-Cross Directory	
1985	-	Haines Criss-Cross Directory	Street not listed in Source
1980	-	Haines Criss-Cross Directory	Street not listed in Source
1975	-	Haines Criss-Cross Directory	Street not listed in Source

## FINDINGS

### CROSS STREETS

No Cross Streets Identified

## **City Directory Images**



**DEERWOOD DR 2017**

2481	SUNGARD SUNGARD RECOVERY SERVICES LP
2650	BONIFACIO, ANTHONY G
2654	SORIANO, CORNELL M
2658	HINDMARCH, ERIK
2662	SUEN, ANDY C
2666	CALIWAG, ROSERMIE V
2670	BECKER, ELAYNE L
2674	SIMMONS, ELIZABETH
2678	SMITH, BRENDAN J
2686	DURRANI, KHURRAM K
2690	TONG, MARIZELLE
2694	HARTANTO, DANIEL
2698	CHENG, KAI S

**DEERWOOD DR 2014**

2481 SUNGARD RECOVERY SERVICES LP  
2650 BONIFACIO, ANTHONY G  
2654 SORIANO, CORNELL M  
2658 HINDMARCH, ERIK  
2662 SUEN, ANDY C  
2666 PALMISANO, CICILY  
2670 BECKER, ELAYNE L  
2674 OCCUPANT UNKNOWN,  
2678 GEE, GARRETT H  
2682 OLIVER, DAVID J  
2686 OCCUPANT UNKNOWN,  
2690 TONG, MARIZELLE  
2694 HENSON, MANCEL K  
2698 CHEN, WENBIN

**DEERWOOD DR 2010**

2481	SUN GARD AVAILABILITY SVC SUNGARD RECOVERY SVC LP
2650	BONIFACIO, ANTHONY G
2654	SORIANO, CORNELL M
2658	HINDMARCH, ERIK
2662	LIN, LAWRENCE C
2666	LUBRATICH, JOHN
2670	BECKER, ELAYNE L
2674	MCCRIGHT, VERONICA D
2678	GEE, GAIL P
2682	OLIVER, DAVID J
2686	DURRANI, KHURRAM K
2690	BHATIA, SIDDHARTH M
2694	DAVIDSON, KEVIN
2698	CHEN, ANGELUS A



-

**DEERWOOD DR 2005**

2481 COMDISCO INC  
SUNGARD RECOVERY

**DEERWOOD DR 2000**

2481 COMDISCO INCORPORATED

**DEERWOOD DR 1995**

2481 GRAZIADEI, MIKE E  
2501 JOHN MUIR ADOLESCENT TREATMENT



-

**DEERWOOD DR 1992**

2481 COMDISCO DISASTER  
2501 MUIR J ADLSCNT CNTR

## DEERWOOD DR 1990

# DEERWOOD DR (88)

## 94583 SAN RAMON

2481	★COMDISCO DISASTER	831-3700	
	★COMDISCO INC	831-3700	
2501	★ADOLESCENT TRTMT CT	838-9900	9
	★JOHN MUIR TRTMNT CT	838-8000	9
	★MUIR J ADLSCNT CNTR	838-9600	9
★	5 BUS	0 RES	0 NEW





## **APPENDIX G**

### **ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRES (2)**

Project Name: 2481 Deerwood Drive

Project No. 19202.000.001



**ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE  
FOR CLIENT**

To evaluate the potential for possible environmentally related impacts and site contamination the following information is requested. This questionnaire is to be completed by the user of the phase one environmental site assessment, or their authorized representative.

**PART I**

1. Property address and Assessor's Parcel Number (APN):

2481 Deerwood Drive, San Ramon, CA 94583

APN# 208-640-003-9

2. Current property owner (name, address, voice/fax number):

SIEVA PROPERTY LLC, a California limited liability company  
Vigay Pillai - Managing Member  
128 Shadowhill Circle, San Ramon, CA 94583  
(206) 849-6370

3. Date current property owner assumed title of property:

Unknown

4. Current property development/improvements:

50,834 sq.ft. Commercial Office Building on 4.43 acres, built in 1986/1987. Site includes cooling towers, 150,000 sq.ft. of raised flooring with multiple CRAC units, preaction fire suppression and Fike Fire Control system. 1500 KW Diesel Generator with 2000 gallon fuel tank and 500 Kva Eaton un-interruptible power supply. All disaster infrastructure remains in place and well as cooling infrastructure.

5. Past property use, development/improvements:

Above referenced commercial office building is only known past property use.

6. Neighboring property uses:

Properties to the north, east and west consist of Medium Density Residential Housing. Commercial and Public Space lies to the south.

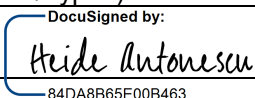
**PART II**

1. Are you aware of any environmental cleanup liens against the *property* that are filed under federal, tribal, local or state law?  Yes  No
2. Are you aware of any activity and land use limitations, such as engineering controls, land use restrictions, or institutional controls that are in place at the property and/or have been filed or recorded in a registry under federal, tribal, state or local law?  Yes  No
3. Do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the *property* or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?  Yes  No
4. If a property transaction is occurring in conjunction with this environmental assessment, does the purchase price of this *property* reasonably reflect the fair market value of the *property*?  Yes  No TBD
5. If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?  Yes  No  N/A
6. Are you aware of any commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example,
- (a) do you know of specific chemicals that are present or once were present at the *property*?  Yes  No
- (b) do you know of spills or other chemical releases that have taken place at the *property*?
- (c) do you know of any environmental cleanups that have taken place at the *property*?
- Chemicals identified in City of San Ramon GP CEQA include Formaldehyde, Nox, Benzene
7. Based on your knowledge and experience related to the *property* are there any obvious indicators that point to the presence or likely presence of contamination at the *property*?  Yes  No

**If a "Yes" response was provided to any of the above questions, please provide details below:**

I certify that the information herein is true and correct to the best of my knowledge as of the date signed below.

Name (Printed/Typed): Heide Antonescu

Signature:  84DA8B65E00B463...

Date: August 10, 2021

**ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE  
FOR KEY SITE MANAGER**

To evaluate the potential for possible environmentally related impacts and site contamination the following information is requested. This questionnaire is to be preferably completed by the current property owner, or owner representative, leasing agent, or other person having good knowledge of the uses and physical characteristics of the property (Key Site Manager).

**PART I**

1. Property Address/Location and Assessor's Parcel Number (APN):

Address: 2481 deerwood dr, san ramon, ca 94583

APN: 208-640-003-9

2. Current property owner (name, address, voice/fax number):

Sieva Property LLC  
128 Shadowhill Circle,  
San Ramon, CA 94583

3. Date current property owner assumed title of property:

6/12/2018

4. Current property development/improvements:

None

5. Past property use, development/improvements:

Office, Datacenter

6. Neighboring property uses:

Homes, apartment complex

**PART II** - The following questions should be answered to the best of your knowledge.

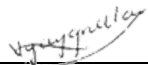
- |   |                                 |   |
|---|---------------------------------|---|
| 1. Is/has the <i>property</i> or any adjoining property used/been used for industrial purposes?   | <input type="checkbox"/><br>Yes | <input checked="" type="checkbox"/><br>No |
| 2. Has the <i>property</i> or any adjoining property been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?                      | <input type="checkbox"/><br>Yes | <input checked="" type="checkbox"/><br>No |
| 3. Are there currently, or have there been previously, any damaged or discarded automotive or industrial batteries, or pesticides, paints, or other chemicals in individual containers of greater than 5 gal in volume or 50 gal in the aggregate, stored on or used at the <i>property</i> or at the facility? | <input type="checkbox"/><br>Yes | <input checked="" type="checkbox"/><br>No |
| 4. Has undocumented soil been brought onto the property at any time? If yes, estimated quantity is _____ cubic yards.   | <input type="checkbox"/><br>Yes | <input checked="" type="checkbox"/><br>No |
| 5. Has soil been brought onto the property that originated from a contaminated site or that is of an unknown origin?  | <input type="checkbox"/><br>Yes | <input checked="" type="checkbox"/><br>No |
| 6. Are there currently, or have there been previously, any pits, ponds, or lagoons located on the <i>property</i> in connection with waste treatment or waste disposal?   | <input type="checkbox"/><br>Yes | <input checked="" type="checkbox"/><br>No |
| 7. Is there currently, or has there been previously, any stained soil on the <i>property</i> ?  | <input type="checkbox"/><br>Yes | <input checked="" type="checkbox"/><br>No |
| 8. Are there currently, or have there been previously, any registered or unregistered storage tanks (above or underground) located on the <i>property</i> ?   | <input type="checkbox"/><br>Yes | <input checked="" type="checkbox"/><br>No |
| 9. Are there currently, or have there been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the <i>property</i> or adjacent to any structure located on the <i>property</i> ?  | <input type="checkbox"/><br>Yes | <input checked="" type="checkbox"/><br>No |
| 10. Are there currently, or have there been previously, any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors?  | <input type="checkbox"/><br>Yes | <input checked="" type="checkbox"/><br>No |
| 11. Are there any domestic, irrigation or monitoring wells on the property?   | <input type="checkbox"/><br>Yes | <input checked="" type="checkbox"/><br>No |
| 12. If the <i>property</i> is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system or has the well been designated as contaminated by any government environmental/health agency?                 | <input type="checkbox"/><br>Yes | <input checked="" type="checkbox"/><br>No |
| 13. Have you been informed of the past or current existence of <i>hazardous substances</i> or <i>petroleum products</i> or environmental violations with respect to the <i>property</i> or any facility located on the <i>property</i> ?  | <input type="checkbox"/><br>Yes | <input checked="" type="checkbox"/><br>No |
| 14. Have there been any <i>environmental site assessments</i> of the <i>property</i> or facility that indicated the presence of <i>hazardous substances</i> or <i>petroleum products</i> on, or contamination of, the <i>property</i> or recommended further assessment of the <i>property</i> ?                | <input type="checkbox"/><br>Yes | <input checked="" type="checkbox"/><br>No |
| 15. Have there been any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any <i>hazardous substance</i> or <i>petroleum products</i> involving the <i>property</i> ?   | <input type="checkbox"/><br>Yes | <input checked="" type="checkbox"/><br>No |
| 16. Has there been any past agricultural use of the <i>property</i> , such as orchards or seed crop cultivation?  | <input type="checkbox"/><br>Yes | <input checked="" type="checkbox"/><br>No |
| 17. Have any <i>hazardous substances</i> or <i>petroleum products</i> , unidentified waste materials, tires, automotive or industrial batteries or any other waste materials been dumped above grade, buried and/or burned on the <i>property</i> ?   | <input type="checkbox"/><br>Yes | <input checked="" type="checkbox"/><br>No |
| 18. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs?  | <input type="checkbox"/><br>Yes | <input checked="" type="checkbox"/><br>No |

If a "Yes" response was provided to any of the above questions, please provide details below:

I certify that the information herein is true and correct to the best of my knowledge as of the date signed below.

Name (Printed/Typed): Vijay Pillai

Signature:



Date: 8/18/2021



## **APPENDIX H**

### **QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL**

## SHAWN MUNGER, CHG Principal

### EDUCATION

BS Geology University of California,  
Davis 1985

### EXPERIENCE

Years with ENGEO: 36

### REGISTRATIONS & CERTIFICATIONS

Certified Hydrogeologist, CA 413

Professional Geologist, CA 5810

HAZWOPER 40 Hour Training, CA  
100830513934

HAZWOPER 8 Hour Training, CA  
180720576014

### SPECIALIZATIONS

- Environmental Assessments and Remediation
- Environmental Restoration
- Water Quality Studies
- Water Wells/Hydrogeology

Since 1985, Shawn has been managing groundwater supply evaluations, hydrogeologic studies, chemical assessments, Phase I and II Site Assessments, UST site investigations, risk-based corrective action (RBCA), VOC remediation, and agricultural impact evaluations. He serves as Principal-in-Charge or Project Manager with extensive expertise in environmental and hazardous materials projects involving groundwater, hydrology, contaminant fate and transport, and complex remediation programs. A renowned expert in his field, Shawn has successfully solved many difficult environmental challenges to achieve desired project outcomes.

### SELECT PROJECT EXPERIENCE

#### **Heritage Fields, Great Park Neighborhoods—Irvine, CA**

*Principal in Charge.* Shawn provided principal oversight of the preparation of over 50 phase I and Phase II Environmental Site Assessments for the former El Toro Marine Corps Air Station (MCAS). The site is currently under development as a large-scale mixed-use development including several schools, residential subdivisions, recreational facilities and commercial development. Shawn also provided consultation regarding environmental site characterization and remediation at the site.

#### **Hanover Cannery Park Project No. 14-473—San Jose, CA**

*Principal in Charge.* Shawn provided principal oversight and review of the Phase I ESA, and soil, groundwater, and soil gas sampling. The historical use of the site resulted in chlorinated solvent impacts to groundwater and soil gas. Results were communicated to the client as well as the oversight regulatory agency to come with the proposed remediation. The project consists of redeveloping an approximately 9-acre commercial/industrial property listed on the California Regional Water Quality Control Board's GeoTracker database as an open site assessment cleanup program site. Elevated concentrations of VOCs (specifically PCE and TCE) have been previously detected in soil, groundwater, and soil gas at the property.

#### **Mission Village—Valencia, CA**

*Principal in Charge.* Shawn provided principal oversight of multiple phase I/II environmental site assessments and site remediation. The project site consists of a large scale, residential and mixed-use subdivision, which was a former oil/gas production field, with more than 40 abandoned oil/gas wells.



### **Vita Pakt—Covina, CA**

*Principal in Charge.* Shawn provided principal oversight of phase I/II environmental site assessments and risk evaluations. The approximately 5.9-acre site formerly operated as fruit processing and dehydration business (ceased operation by 2016) and is planned to be redeveloped into residential housing. Subsurface soil gas impacts were identified in association with past operations.

### **Innovation at Warm Springs—Fremont, CA**

*Principal in Charge.* Shawn provided oversight of the preparation of Phase I and II ESAs, along with a Preliminary Endangerment Assessment (PEA) for a new elementary school site. The approximately 109-acre site is currently occupied by a parking lot, warehouse buildings, agricultural fields, and UPRR railroad tracks. The southern portion of the Property was a part of the former auto manufacturing and distribution facility jointly owned by Toyota and General Motors. The northern portion of the Property has been used for agricultural purposes since at least the late 1930s. Additionally, railroad tracks are present along the eastern boundary of the Property.

Former gasoline ASTs existed on the Property, along with a pump station and fuel dispensers, which were removed in 2010. The former car wash area also had a wastewater recovery system, which included oil/water separators, clarifiers, and interceptor tanks. One UST was located in the southeast portion of the agricultural fields, which was removed in 2004. Four 10,000-gallon diesel and gasoline USTs were formerly located in the southwestern portion of the Property in the haul-away parking lot area. Mixed-use redevelopment is planned for the Property. A phase II ESA was recommended for the Site, including soil and groundwater sampling.

### **277 Fairchild 228/236 Evandale Ave—Mountain View, CA**

*Principal in Charge.* Shawn provided oversight of soil, groundwater and soil gas characterizations, risk evaluations and Response Action Plan preparation under USEPA oversight. The site is within the Middlefield-Ellis-Whisman (MEW) Superfund site, contaminated with chlorinated solvents from legacy semiconductor plant operations. On-going remedial activities included soil vapor extraction, groundwater treatment using bioaugmentation, and groundwater/soil gas monitoring. The proposed site development consists of detached single-family homes and townhomes.

### **The Rivers—West Sacramento, CA**

*Principal in Charge.* Shawn provided oversight of during the preparation of a Removal Action Workplan (RAW) in coordination with CAL-EPA DTSC. The property is a proposed charter school site. ENGEO performed environmental site characterization work to address residual pesticide contamination due to historic termiticide applications. A Removal Action Workplan was developed under the oversight of CAL-EPA to excavate and remove the pesticide impacted soils. Remedial activities were completed in 2018 and DTSC issued a “no further action” letter.

### **Sparklizing Cleaners and Laundry—Fremont, CA**

*Group Leader, Principal in Charge, Project Manager.* Shawn provided principal review and data analysis for this former dry cleaning facility, which had released tetrachloroethylene (PCE) to site soil and groundwater.

The project site consists of a dry-cleaning facility located within a commercial/retail center. Dry-cleaning operations have been conducted at the facility since 1974 and have resulted in chlorinated solvent impacts to soil and groundwater beneath the site. As a result, the CRWQCB opened a Spills, Leaks, Investigations, and Cleanups (SLIC) case and the site was referred to the Alameda County Water District (ACWD) for lead agency oversight. A series of soil and

groundwater investigations identified a source area beneath the drycleaner suite and an adjoining retail suite. ENGEO prepared a Corrective Action Plan (CAP) and coordinated the in-situ chemical oxidation program, which consisted of injecting 35,000 gallons of potassium permanganate to the subsurface to oxidize chlorinated solvents. The project is currently in the post remediation monitoring phase.

**Pleasant Hill BART Station—Walnut Creek, CA**

*Principal in Charge.* Shawn provided oversight, data analysis and consultation during the preparation of a Phase II Environmental Site Assessment. The property is an existing BART station that encompasses 20 acres, including the platform/station area, electrical facilities, a parking garage and additional paved parking areas.

**Westshore—Richmond, CA**

*Project Manager.* Shawn conducted Phase I and II Site Assessments, risk evaluations and prepared a soil management plan. The property was a former automotive manufacturing plant proposed for a multi-unit condominium development, including a 6-story podium structure to include five residential floors with 269 units and one parking floor.

**Rancho Miramonte—Chino, CA**

*Principal in Charge.* Shawn performed Principal review of ENGEO's environmental documents for this large former dairy facility, proposed for a large-scale detached single-family residential subdivision. Issues with the site included former leaking USTs, nitrate impacts from manure disposal, and surface water impairments. The project was approved for development by the County Environmental Health Department.

**Hercules Property—Hercules, CA**

*Project Manager.* Shawn provided oversight of a Phase I Environmental Site Assessment, site asbestos survey, site characterization, and demolition observation/contaminant assessment. The project area consists of ±167 acres located near and along the southeastern shore of San Pablo Bay in Hercules. The property was once a portion of a 1300-acre manufacturing facility that was operated by DuPont from 1879 to 1913 and Hercules Incorporated from 1913 to 1979. The planned development includes single/multi-family residential development with some commercial components.

**Highlands Ranch—Pittsburgh, CA**

*Principal in Charge.* Shawn provided oversight, data analysis, and collaboration with RWQCB personnel. The project site consists of a 140-acre portion of the former Chevron Los Medanos Tank Farm located in Pittsburg, California. The site was historically occupied by 24 crude oil tanks and four wax ponds. Remediation of the crude oil tank and wax pond locations was conducted according to a remedial action plan (RAP) and oversight was provided by the CRWQCB. Remediation was performed over a period of four months and consisted of excavating approximately 110,000 cubic yards of impacted soil and placing the material in windrows for ex-situ bioremediation.



August 24, 2022

**Trumark Homes**

3001 Bishop Drive, Suite 100  
San Ramon, California 94583

Attention: **Heide Antonescu | Director of Forward Planning**

Subject: **2481 Deerwood Drive  
San Ramon, California  
Exterior Noise and Exterior Façade Acoustical Analysis  
Veneklasen Project No. 6469-009**

Dear Heide:

Veneklasen Associates, Inc. (Veneklasen) has completed our review of the 2481 Deerwood Drive project located in San Ramon, California. This report predicts the exterior noise level at the site using measurements and computer modeling. Using this information, interior noise levels were calculated based on the exterior noise exposure and the construction types proposed. From this, the exterior façade design was determined. This report represents the results of our findings.

**1.0 INTRODUCTION**

This study was conducted to determine the impact of the exterior noise sources on the 2481 Deerwood Drive project in San Ramon, California. Veneklasen’s scope of work included calculating the exterior noise levels impacting the site and determining the method, if any, required to reduce the interior and exterior sound levels to meet the applicable code requirements of the State of California and the City of San Ramon.

The project consists of 55 townhomes with parking. The project is bounded by Deerwood Drive to the north, Crow Canyon Road to the south, and existing residential uses to the east and west.

**2.0 NOISE CRITERIA**

DNL (Day-Night Average Sound Level Level) is the 24-hour equivalent (average) sound pressure level in which the nighttime (10 pm – 7 am) noise is weighted by adding 5 dB to the hourly level. Since this is a 24-hour metric, short-duration noise events (truck pass-by’s, buses, trains, etc.) are not as prominent in the analysis.

Leq (equivalent continuous sound level) is defined as the steady sound pressure level which, over a given period of time, has the same total energy as the actual fluctuating noise.

**2.1 Interior Noise Levels - Residential**

The State of California Building Code (Section 1206, “Sound Transmission”) and the City of San Ramon Noise Element state that interior DNL values for residential land uses are not to exceed 45 DNL in any habitable room.

If the windows must be closed to meet an interior level of 45 DNL, then a mechanical ventilating system or other means of natural ventilation may be required.

### 3.0 EXTERIOR NOISE ENVIRONMENT

#### 3.1 Noise Measurements

Traffic on Deerwood Drive and Crow Canyon Road is the primary source of noise affecting the site. Veneklasen visited the site on Wednesday, September 22, 2021, and placed a meter at the south property line to capture the hourly sound levels on the site for a 24-hour period. Veneklasen also completed short-term noise measurements. Table 1 and Figure 1 show the location and summary of the noise measurements. The site is not impacted by aircraft or rail that is significant.

**Table 1 – Measured Sound Levels**

Location	Loudest Daytime Hour, Leq dBA	Night Max, dBA	DNL	Leq dBA
L1	61	71	60	—
S1	—	—	—	54
S2	—	—	—	58
S3	—	—	—	49
S4	—	—	—	56
S5	—	—	—	52

**Figure 1 – Aerial View of Project Site Showing Measurement Locations**



### 3.2 Overall Exterior Exposure

Based on the computer model and measurements, Veneklasen calculated the noise level at different locations across the project site. The predicted sound levels are listed in Table 2 below.

**Table 2 – Exterior Noise Levels**

Location	Exterior Noise Level, DNL	Train Max, dBA
All Units	≤ 60	< 75

## 4.0 INTERIOR NOISE CALCULATION

### 4.1 Exterior Façade Construction

Calculations were based on the undated site yield study. The plans do not show the exterior wall construction. Veneklasen has assumed that the exterior wall will consist of 3-coat stucco over sheathing on wood studs with a single layer of gypsum board on the interior and batt insulation in the cavity.

Veneklasen’s calculations included the roof path, but this was insignificant in the interior noise level calculated.

Veneklasen utilized the glazing ratings (glass, frame and seals) shown in Appendix I. Appendix I shall be the acoustical specification for the exterior windows and doors.

### 4.2 Interior Average Noise Level (DNL) – Residential

Veneklasen calculated the interior level within the residential units given the measured noise environment and the exterior façade construction described above. Table 3 shows the predicted interior DNL noise levels based on the windows and doors with STC ratings as shown and glazing construction as described in Appendix I.

**Table 3 – Calculated Interior DNL Noise Levels**

Location	Exterior Noise Level, DNL	Window/ Door Rating	Interior Noise Level, DNL
All Units	≤ 60	No STC Requirement. STC 30 recommended.	

Sound-rated assemblies are not required. However, Veneklasen recommends specifying a window with a minimum rating of STC 30 to maintain a consistent level of acoustical quality.

## 5.0 SUMMARY

The following summarizes the acoustical items required to satisfy the noise criteria as described in this report.

### Residential

- Exterior wall assembly is acceptable as described in Section 4.1.
- The roof assembly was included in our calculations and is not a significant path of sound and can remain as designed.
- Based on the measured and modeled noise levels, the levels are low enough such that there are no specific requirements for STC ratings of windows and doors.
- Windows and glass doors with minimum STC ratings as shown in Table 3 and defined in Appendix I are recommended. Appendix I shall be the acoustical specification for the exterior windows and doors.

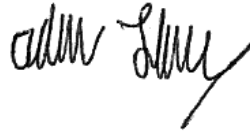
Various noise mitigation methods may be utilized to satisfy the noise criteria described in this report. Alteration of mitigation methods that deviate from requirements should be reviewed by the acoustical consultant.

If you have any questions or comments regarding this report, please do not hesitate to contact us.

Sincerely,  
**Veneklasen Associates, Inc.**



Chris Kezon  
Senior Associate



Adam Thompson  
Associate

## APPENDIX I – GLAZING REQUIREMENTS

In order to meet the predicted interior noise levels described in Section 4.0, the glazing shall meet the following requirements:

**Table 4 – Acoustical Glazing Requirements: Minimum Octave Band Transmission Loss and STC Rating**

Nominal Thickness	Minimum Transmission Loss						Min. STC Rating
	Octave Band Center Frequency (Hz)						
	125	250	500	1000	2000	4000	
1" dual	21	18	27	34	37	32	<b>30</b>

The transmission loss values in the table above can likely be met with the following glazing assemblies:

1. STC 30: 1/8" monolithic – 3/4" airspace – 1/8" monolithic

An assembly's frame and seals may limit the performance of the overall system. Therefore, the window and door systems selected for the project shall not be selected on the basis of the STC rating of the glass alone, but on the entire assembly including frame and seals. Additionally, the assemblies given above are provided as a basis of design, but regardless of construction, the octave band Transmission Loss (TL) and STC value of the system selected must meet the minimum values in Table 4 above.

Independent laboratory acoustical test reports should be submitted for review by the design team to ensure compliance with glazing acoustical performance requirements. Laboratories shall be accredited by the Department of Commerce National Voluntary Laboratory Accreditation Program (NVLAP). Labs shall be pre-approved by Veneklasen Associates. Tests shall be required to be performed in North America. Lab tests and lab reports shall be in compliance with ASTM standard E90 and be no more than 10 years old from the date of submission for this project.

If test reports are not available for a proposed assembly, the assembly, including frame, seals and hardware, shall be tested at an independent pre-approved NVLAP-accredited laboratory to demonstrate compliance with the requirements of this report. Veneklasen shall be invited to witness acoustical testing completed and reserves the right to exclude test reports from laboratories that are not pre-approved by Veneklasen.



**APPENDIX II – MEASURED HOURLY NOISE LEVELS**

Location	Start Time	Duration	LAeq
L1	9/22/2021 1PM	01:00:00	56
	2PM	01:00:00	57
	3PM	01:00:00	59
	4PM	01:00:00	58
	5PM	01:00:00	60
	6PM	01:00:00	57
	7PM	01:00:00	55
	8PM	01:00:00	54
	9PM	01:00:00	53
	10PM	01:00:00	52
	11PM	01:00:00	51
	9/23/2021 12AM	01:00:00	49
	1AM	01:00:00	48
	2AM	01:00:00	48
	3AM	01:00:00	49
	4AM	01:00:00	51
	5AM	01:00:00	54
	6AM	01:00:00	56
	7AM	01:00:00	58
	8AM	01:00:00	57
	9AM	01:00:00	57
	10AM	01:00:00	56
	11AM	01:00:00	56
	12PM	01:00:00	54
	1PM	01:00:00	56
	2PM	01:00:00	56
	3PM	01:00:00	56
	4PM	01:00:00	57
	5PM	01:00:00	58
	6PM	01:00:00	57
	7PM	01:00:00	55
	8PM	01:00:00	53
	9PM	01:00:00	53
10PM	01:00:00	52	
11PM	01:00:00	52	
9/24/2021 12AM	01:00:00	50	
1AM	01:00:00	50	
2AM	01:00:00	49	
3AM	01:00:00	49	

Location	Start Time	Duration	LAeq
	4AM	01:00:00	51
	5AM	01:00:00	54
	6AM	01:00:00	56
	7AM	01:00:00	58
	8AM	01:00:00	58
	9AM	01:00:00	57
	10AM	01:00:00	56
	11AM	01:00:00	60
S1	9/22 12:45PM	0:15:00	54
	2:10	0:15:00	54
S2	1:00	0:15:00	59
	2:25	0:15:00	55
S3	1:15	0:15:00	45
	2:40	0:15:00	50
S4	1:35	0:15:00	54
	3:00	0:15:00	57
S5	1:50	0:15:00	51
	3:15	0:15:00	52

August 26, 2022

**Trumark Homes**

3001 Bishop Drive, Suite 100  
San Ramon, California 94583

Attention: **Heide Antonescu | Director of Forward Planning**

Subject: **2481 Deerwood Drive  
San Ramon, CA  
Construction Noise and Vibration Logistics Plan  
Veneklasen Project No. 6469-009**

Dear Heide:

This Plan addresses noise and vibration control during construction for the proposed 2481 Deerwood Drive Townhomes Project located in San Ramon, CA. This document serves as Construction Noise and Vibration Logistics Plan for demolition, excavation, and construction. In formulating the plan, we have reviewed the following documents:

- San Ramon Municipal Code
- San Ramon General Plan
- Federal Highway Administration Construction Noise Handbook, August 2006
- Federal Transit Administration Transit Noise and Vibration Impact Assessment Guidance Manual, September 2018

If you have any questions or comments regarding this report, please do not hesitate to contact us.

Sincerely,  
**Veneklasen Associates, Inc.**



John LoVerde, FASA  
Principal  
Director, Architectural Acoustics



Ryan Schofield  
Senior Associate

## 1.0 INTRODUCTION

This document details the Noise and Vibration Control Logistics Plan for the construction activity associated with the 2481 Deerwood Drive Townhomes Project. The project consists of 55 townhomes with parking. The project is bounded by Deerwood Drive to the north, Crow Canyon Road to the south, and existing residential uses to the east and west. Figure 1 shows the project location and Veneklasen’s sound measurement locations for the exterior noise report provided under separate cover.

**Figure 1-Project Location and Sound Measurement Locations**



Construction for this project has been separated into 4 phases: phase 1 excavation and grading; phase 2 site utilities and below grade concrete; phase 3 paving and concrete; phase 4 exterior enclosure, roof and interior construction (Including framing, exterior finishes, steel, MEP Equipment, Site work finish carpentry). In phases 1, 2, 3 & 4, activities have been combined as possibility of occurring simultaneously.

## 2.0 PROJECT NOISE AND VIBRATION CRITERIA

### 2.1 Noise Criteria

#### City of San Ramon General Plan 2035

Chapter 10 of the General Plan section 10.1-I-14 states:

*“Construction activities are exempt from the standards set forth in Figure 10-2 [Land Use Compatibility], but must implement all practical noise attenuation measures and practices to limit adverse impacts on nearby land uses.*

*Noise attenuation measures and practices include limits on hours of operation, use of*

*mufflers or engine shrouds, identification of truck haul routes, installation of temporary fencing or barriers, and locating staging areas as far as practicable from sensitive receptors.”*

**City of San Ramon Municipal Code Title B6 Chapter V – Noise Control**

*“B6-100. - Construction projects.*

*It is unlawful for a person within a residential land use district to operate or perform construction or repair work on a building, structure or project, or to operate a pile driver, steam shovel, pneumatic hammer, derrick, steam or electric hoist or other construction-type device on holidays celebrated by the federal government, and on Monday through Friday, prior to seven-thirty a.m. and after seven p.m. on each day and on Saturdays and Sundays, prior to nine a.m. and after six p.m.”*

**FTA Construction Noise Criteria**

The City of San Ramon has not identified quantifiable noise limits that can be used to evaluate the compatibility of land uses with the expected construction noise environment. Although there are no local standards which control the allowable construction noise in existing residential premises, the U.S Department Transportation has developed construction noise impact assessment criteria for evaluating noise impacts associated with the construction. Table 1 shows the FTA construction Noise Criteria for long-term projects.

**Table 1 FTA Construction Equipment Noise Criteria for Long-Term Projects**

Land Use	Day Leq (8 hr)	Night Leq (8 hr)
Residential	80 dBA	70 dBA
Commercial	85 dBA	85 dBA
Industrial	90 dBA	90 dBA

Source: FTA Transit Noise and Vibration Impact Assessment Guidance Manual, Sep 2018

**2.2 Vibration Criteria**

San Ramon General Plan and Municipal Code do not give explicit mention of vibration during demolition or construction.

**FTA Vibration Criteria**

Veneklasen refers to the guidelines of the Federal Transit Administration (FTA) to minimize vibration impacts on people, residences and businesses.

FTA guidelines address the impacts in terms of architectural damage in PPV in/s and VdB. Vibration levels corresponding to these responses are shown in Table .

**Table 2 – Typical Construction Activities Limits**

Criteria Description	Vibration Criteria PPV (in/s)	Maximum Vibration Velocity Level (VdB re: 1µin/s)
Residences and buildings where people normally sleep (frequent events)	--	72
Institutional land uses with primarily daytime use (frequent events)	--	75
Institutional land uses with primarily daytime use (occasional events)	--	78
Buildings extremely susceptible to vibration damage	0.12	90
Non-engineered timber and masonry buildings	0.2	94
Engineered concrete and masonry (no plaster)	0.3	98
Reinforced-concrete, steel or timber (no plaster)	0.5	102

Source: FTA Transit Noise and Vibration Impact Assessment Guidance Manual, September 2018

### 3.0 PROJECT CONSTRUCTION PHASING AND ASSOCIATED EQUIPMENT

Demolition and construction equipment was selected from industry standard reference databases including the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) for equipment typical to projects of this scale. Table 3 below lists the equipment anticipated for use on the project along with associated noise levels at reference distances and anticipated equipment usage factors (the percentage of time equipment is operating at full power).

**Table 3 – Noise Data for Selected Construction Equipment at 2481 Deerwood Drive**

Equipment Description	Phase	General Activity	Usage Factor	Sound Level at Reference Distance (dBA at 50-feet)	Noise Data Source
Excavator	1	Excavation	40	85	FHWA
Dozer	1	Excavation	40	85	FHWA
Water Truck 3,000 gallon	1	Excavation/ Grading / Site Utilities	40	88	FHWA
J5 Skip Loader	1	Excavation / Loading	40	80	FHWA
84" smooth drum roller	1	Grading	20	85	FHWA
Dump truck	1	Excavation/grading/BG concrete/site utility	40	84	FHWA
Backhoe	1	Site utilities/BG concrete	40	80	FHWA
8' Paving machine	1	Paving	50	77	FHWA
51" smooth drum roller	1	Paving	20	80	FHWA
Gradall	1	Concrete/Framing/ Exterior finishes	40	85	FHWA
Forklifts	1	Framing/Interior rough	20	75	FHWA
Mobile Cranes	1	Concrete/Steel/roof MEPs Equipment	16	85	FHWA
Self-erecting Crane	1	Concrete/Framing, Exterior Finishes	20	85	FHWA
Jack Hammer	1	Site Work	20	85	FHWA
Compressor	1	Concrete/Framing/Finish Carpentry	20	80	FHWA
Pile Drill Rig	1	Foundation	50	80	FHWA

In a similar manner, Table below lists the heaviest equipment anticipated for use on the project along with associated vibration levels at reference distances.

**Table 4 – Vibration Data for Selected Construction Equipment at 2481 Deerwood Drive**

Equipment Description	Phase	General Activity	PPV Level at Reference Distance (in/s at 25-feet)	VdB Level at Reference Distance (1 $\mu$ in/s at 25-feet)	Vibration Data Source
Excavator	1	Excavation	0.089	87	FTA
Dozer	1	Excavation	0.089	87	FTA
Water Truck 3,000 gallon	1	Excavation/ Grading / Site Utilities	0.076	86	FTA
J5 Skip Loader	1	Excavation / Loading	0.003	58	FTA
84" smooth drum roller	1	Grading	0.089	87	FTA
Dump truck	1	Excavation/grading/B G concrete/site utility	0.076	86	FTA
Backhoe	1	Site utilities/BG concrete	0.089	87	FTA
8' Paving machine	1	Paving	0.003	58	FTA
51" smooth drum roller	1	Paving	0.003	58	FTA
Gradall	1	Concrete/Framing/	0.003	58	FTA
Mobile Cranes	1	Concrete/Steel/roof MEPS Equipment	0.003	58	FTA
Jack Hammer	1	Site Work	0.035	79	FTA
Sonic Pile Driving	1	Retention Wall	0.170	93	FTA

#### 4.0 NOISE/VIBRATION SENSITIVE RECEPTORS

The project site and noise/vibration-sensitive receptors (NVSR) to the north, south, east, and west of the site are listed in Table 5. For the purposes of this analysis, individual receptors (e.g. individual apartment units, windows/doors, etc.) located within the same property constitute the combined receptor group as defined within Table 5. All other sensitive receptors are located more than 100 feet away from the project site.

**Table 5 – Noise Vibration Sensitive Receptors (NVSR)**

Receptor Group for Analysis	Address	Cardinal Direction from Project Site	Type of Receptor	Distance from Project Site (ft)
NVSR-1	4000 Bollinger Crest Common	West	Residential	10
NVSR-2	6 Sandalwood Lane	East	Residential	20
NVSR-3	120 Shadowhill Circle	East	Residential	20
NVSR-4	124 Shadowhill Circle	East	Residential	20
NVSR 5	128 Shadowhill Circle	East	Residential	20
NVSR-6	132 Shadowhill Circle	East	Residential	45

#### 5.0 PREDICTION AND MODELING

The list of construction equipment, sound levels attributable to that equipment, and assumed utilization factors are shown in Table 3 and Table 4 in Section 3 of this report. It is assumed that all listed construction equipment shall be fitted with standard mufflers and/or typically supplied noise mitigating accessories. No other significantly loud equipment should be in use during this period of construction. Sound levels of various equipment were based upon the FTA Noise Guidance Manual and the FHWA Construction Noise Handbook. Utilization factors were calculated using the FHWA Construction Noise Handbook.

##### 5.1 Noise Source Behavior

Noise exposure from construction equipment at noise-sensitive receptors within 10-100-feet of this project were modeled for the equipment specified. Noise modeling was conducted using calculation methods from industry standard construction noise guidance manuals including the FTA Noise Guidance Manual and the FHWA Construction Noise Handbook.

To model continuous construction noise, all noise sources (per work phase) were assumed to be moving throughout the construction site with a single point and the sources are placed at 40 feet away from the fence line to get the maximum impact at receiver point. A long-term average of noise emitting from the site incident on the sensitive receptors (typical setback to property lines of the receivers) was modeled. All noise was modeled at a height of 5 feet above grade elevation.

Predicted continuous noise levels attributable to construction activity by phase, as well as the applicable construction noise limits, are presented for each receptor group of noise-sensitive receptors are shown in Table 6. There are no specific construction noise criteria given in the City of San Ramon General Plan or Municipal code. Table 6 compares projected noise levels to FTA Construction Noise Criteria outlined in Section 2 of this document.

All noise sources were based upon daytime operation only with construction activity occurring between the hours of 7:30 a.m. to 7:00 p.m., Monday through Friday and between 9:00 a.m. and 6:00 p.m. Saturday and Sunday.

##### 5.2 Vibration Source Behavior

Vibration levels were also modeled for the construction equipment assumed to be used for this project. Vibration levels for various equipment were assumed to be equivalent to similar equipment specified in the FTA Transit Noise and Vibration Guidance Manual. The reference levels for each type of equipment assumed to generate appreciable vibration levels are shown in Table 4 of Section 3.



## 6.0 RESULTS AND NOISE MITIGATION REQUIREMENTS

### 6.1 Noise

The noise exposure to the surrounding NVSR's was modeled both with and without the inclusion of 6-foot fixed noise barriers to evaluate their effectiveness as a noise mitigation measure.

**Table 6 – Comparison of Predicted Continuous Construction Noise Levels With/Without Noise Mitigation**

Project Phase	Receptor	FTA Noise Criteria (dBA)	Construction Noise Level, No Mitigation (dBA)	Construction Noise Level, with 6' Barrier (dBA)
Phase 1: Excavation and grading	NVSR-1	80	87	77
	NVSR-2	80	83	73
	NVSR-3	80	83	73
	NVSR-4	80	83	73
	NVSR-5	80	83	73
	NVSR-6	80	83	73
Phase 2: Site Utility and below grade concrete	NVSR-1	80	84	74
	NVSR-2	80	80	70
	NVSR-3	80	80	70
	NVSR-4	80	80	70
	NVSR-5	80	80	70
	NVSR-6	80	80	70
Phase 3: Paving and concrete	NVSR-1	80	85	73
	NVSR-2	80	81	71
	NVSR-3	80	81	71
	NVSR-4	80	81	71
	NVSR-5	80	81	71
	NVSR-6	80	81	71
Phase 4: Exterior enclosure, roof and interior construction	NVSR-1	80	83	70
	NVSR-2	80	79	69
	NVSR-3	80	79	69
	NVSR-4	80	79	69
	NVSR-5	80	79	69
	NVSR-6	85	79	69

If the construction equipment utilized varies from the equipment categorized in Table 3, this report must be reissued, and noise abatement measures may need to be re-evaluated.

The noise barriers are only required for exterior construction activities or construction activities that may be located outside. Any work contained indoors would be exempt from this requirement as the building's enclosure would provide the required noise mitigation necessary.

### 6.2 Vibration

Vibration levels were also modeled for the construction equipment assumed to be used for this project. Vibration levels for various equipment were assumed to be equivalent to similar equipment specified in the FTA Transit Noise and Vibration Guidance Manual. The reference levels for each type of equipment assumed to generate appreciable vibration levels are shown in Table 4 of Section 3.

The main concern for vibration generated by ground-disturbing construction activities is the potential for architectural/structural damage to adjacent sensitive receptors.

Where drilling for any retaining wall occurs, it shall be done at least at 80' from the nearest receptor building and while avoiding any other work with other heavy machinery during that time.

Vibration limits for structures are assessed using the peak particle velocity (PPV) metric. This metric refers to the maximum speed of a particle as it oscillates about a point of equilibrium that is moved by a passing wave. Vibration limits for human perception and annoyance are assessed using the VdB metric.

**Table 7 – Comparison of Predicted Continuous Construction Vibration Levels**

Project Phase	Receptor	Vibration Level Criteria (PPV [in/s])	Predicted Construction Vibration Level (PPV [in/s]/VdB)	Compliance
Phase 1: Excavation and grading	NVSR-1	0.2	0.118/82.4	Yes
	NVSR-2	0.2	0.069/79.5	Yes
	NVSR-3	0.2	0.069/79.5	Yes
	NVSR-4	0.2	0.069/79.5	Yes
	NVSR-5	0.2	0.069/79.5	Yes
	NVSR-6	0.2	0.069/79.5	Yes
Phase 2: Site Utility and below grade concrete	NVSR-1	0.2	0.065/79.7	Yes
	NVSR-2	0.2	0.049/76.8	Yes
	NVSR-3	0.2	0.049/76.8	Yes
	NVSR-4	0.2	0.049/76.8	Yes
	NVSR-5	0.2	0.049/76.8	Yes
	NVSR-6	0.2	0.049/76.8	Yes
Phase 3: Paving and concrete	NVSR-1	0.2	0.004/53.6	Yes
	NVSR-2	0.2	0.003/50.7	Yes
	NVSR-3	0.2	0.003/50.7	Yes
	NVSR-4	0.2	0.003/50.7	Yes
	NVSR-5	0.2	0.003/50.7	Yes
	NVSR-6	0.2	0.003/50.7	Yes
Phase 4: Exterior enclosure, roof and interior construction	NVSR-1	0.2	0.011/67.7	Yes
	NVSR-2	0.2	0.008/64.8	Yes
	NVSR-3	0.2	0.008/64.8	Yes
	NVSR-4	0.2	0.008/64.8	Yes
	NVSR-5	0.2	0.008/64.8	Yes
	NVSR-6	0.2	0.008/64.8	Yes

For construction activities related to all phases, projected PPV levels at each sensitive receptor are anticipated to meet the project criteria. However, excavators and rollers shall work at least 20 feet from project site boundary and not simultaneously to avoid high transmitted vibration levels to close NVSR's.

## 7.0 CONSTRUCTION NOISE MITIGATION REQUIREMENTS

### 7.1 Responsibilities of the Contractor

The contractor will be responsible for all noise mitigation requirements outlined in this section which comply with the City of San Ramon General Plan and Municipal Code, and the Federal Transit Administration standards.

### 7.2 Required Fixed Noise Barriers

Noise barriers should be used to separate the site from neighboring residential receptors immediately to the east and west of the site.

Fixed noise barriers can be any solid material with a surface density no less than 2 lb. per square foot or a system approved by the acoustical engineer, with a minimum height of 6 feet as specified in above. Materials meeting this requirement include 3/4-inch thick wood, 3/4-inch outdoor plywood, 16-gauge steel sheet, and any masonry units or temporary sound blankets. Support frames should be constructed in sections which allow overlapping between barrier panels when multiples are attached. Gaps between barrier units and between the bottom edge of barrier panels at the ground shall be covered or sealed with a material having 2 pounds per square foot weight. These barriers will be capable of achieving a minimal Sound Transmission Class (STC) rating of 23. Use of equivalent noise barrier systems shall be reviewed and approved by the acoustical engineer. Barriers shall be erected and in place prior to the start of grading and remain in place until site landscaping is installed.

### **7.3 Required Noise Control for Equipment**

Electrically powered or gas/diesel-driven construction equipment may utilize sound mufflers at the exhaust and/or acoustical skirts, screens to shield the engine. These attenuating devices may be acquired at the time of leasing, rental, or purchase of equipment from the rental agency and/or manufacturer.

### **7.4 Miscellaneous Noise/Vibration Mitigation Requirements**

#### **1. Location of Construction Activity**

Whenever possible, construction or equipment activity generating relatively high levels of noise should occur as far away from noise-sensitive receptors as possible. Sensitive locations for this project are listed in Table 5.

#### **2. Ordering of Construction Activity**

Whenever possible, construction or equipment activity generating relatively high levels of noise and vibration should not occur at the same time and should be spaced as far apart in time as possible from one another. In general, the loudest activities should be reserved for the middle of the day (noon). If activities must occur simultaneously, they should be performed as far away from one-another as possible within the construction zone.

#### **3. Delivery and Storage of Materials and Equipment**

All deliveries of material and equipment shall occur during the hours of 7:30 a.m. to 7:00 p.m. Monday through Friday and during 9:00 a.m. to 6:00 p.m. on Saturdays and Sundays when possible. The queuing of construction vehicles outside the site outside these hours should be avoided whenever possible. Vehicles delivering materials and equipment shall be operated in strict conformance with regulations established by the United States Department of Transportation and all State and Local requirements. All vehicles shall utilize mufflers and other devices to minimize noise levels. All materials and equipment shall be stored on-site and within the confines of the construction barricades.

#### **4. Stationary and Portable Equipment**

Stationary and portable construction equipment will be located at positions where the noise impact to nearby noise/vibration-sensitive receptors (NVSR) is minimal. At times where the equipment cannot be positioned at a minimal noise impacting location, noise mitigation devices may need to be implemented (e.g., noise barriers, noise blankets as described above).

#### **5. Construction Equipment Inactivity**

Construction equipment shall not remain idling and inactive for relatively long periods during construction hours. All such equipment shall be turned off until use is required.

#### 6. Public Announcement Systems

The use of amplified public announcement systems, speakers, and similar equipment—except for a bull horn during emergency circumstances—shall not be utilized at the project.

#### 7. Radios and Alarms

Radios, music playback equipment, musical instruments, or automobile or truck alarms shall not be utilized such that they are audible beyond the boundaries of the construction zone.

#### 8. Vehicle Routes

Provide a map of the haul truck routes to the Planning and Engineering Department for review and approval. The planned haul truck routes shall avoid residential and other sensitive receptor areas to the maximum extent feasible. Haul truck deliveries shall not take place between the hours of 7:30 a.m. to 7:00 p.m. Monday through Friday and during 9:00 a.m. to 6:00 p.m. on Saturdays and Sundays. Additionally, if heavy trucks used for hauling would exceed 100 daily trips (counting both to and from the construction site), then the project applicant shall prepare a noise mitigation plan denoting any construction traffic haul routes and include appropriate noise mitigation measures. To the extent feasible, the plan shall denote haul routes that do not pass sensitive land uses or residential dwellings. Locate maintenance equipment, material stockpile, and parking areas, as far from noise/vibration sensitive receptors as feasible.

#### 9. Vehicle Horns

Except as otherwise required by law, all vehicle horns shall remain silent, except in the case of an emergency.

#### 10. Construction Schedule

Notifying the neighborhood of the construction activities and construction schedule (including estimated dates of various construction phases) at least one week and no more than three weeks prior to the start of construction

#### 11. Noise Disturbance Coordinator

Designate a “noise disturbance coordinator” who shall be responsible for responding to any local complaints about construction noise. The disturbance coordinator shall determine the cause of noise complaint and institute responsible measures warranted to correct the problem. A telephone number for the disturbance coordinator shall be conspicuously posted at the construction site.

#### 12. Vibration claims Investigation

Designate a person responsible for registering and investigating claims of excessive vibration. The contact information of such person shall be clearly posted on the construction site.

END

**APPENDIX I – GLOSSARY OF ACOUSTICAL TERMS****Definitions of Acoustical and Other Related Terms**

<b>Term</b>	<b>Definition</b>
<b>Construction Site</b>	For the purpose of noise and vibration control requirements, the construction site includes property lines, construction easement boundaries, and contractor staging areas outside the defined boundary lines, used expressly for construction.
<b>Daytime</b>	Local – Pacific Standard Time Zone between 07:00 and 19:00.
<b>Decibel (dB)</b>	A unit describing the amplitude of sound in a logarithmic ratio to a reference value.
<b>A-weighted Decibels (dBA)</b>	A filter applied to sound pressure levels in decibel to simulate the response of the human ear at the threshold of hearing. A-weighting de-emphasizes the low frequency components of a sound similar to the human ear at these levels. This metric has been closely tied to subjective reactions of annoyance to noise, and is used as a noise metric in this and in many other environmental acoustics reports. In this report, all dBA levels reported refer to the sound pressure level, referenced to 20 $\mu$ Pa
<b>Sound Pressure Level (<math>L_p</math>)</b>	The amplitude of sound compared to the reference value of 20 $\mu$ Pa. Sound Pressure Level is what we perceive as audible sound. Sound Pressure Level decreases as distance from the source to the receiver increases. All sound values discussed in this report refer to Sound Pressure Levels.
<b>Equivalent Sound Level (<math>L_{eq}</math>)</b>	The time-weighted average sound or vibration level for a given period of time. Use of this metric allows the observation of the overall sound level for the measurement period.
<b>Maximum Sound Level (<math>L_{max}</math>)</b>	The instantaneous maximum sound or vibration level of an event. The $L_{max}$ can occur over very short periods of time, and fluctuates much more than the $L_{eq}$ due to the presence of short events in the environment.
<b>Vibration Decibel (VdB)</b>	A measure of vibration amplitude in decibels, referenced to 1 $\mu$ in/sec, most commonly used for assessment and prediction of annoyance due to perceptible vibration and ground-borne noise. The V is added for clarity to easily distinguish between sound and vibration decibels.

August 26, 2022

**Trumark Homes**

3001 Bishop Drive, Suite 100  
San Ramon, California 94583

Attention: **Heide Antonescu | Director of Forward Planning**

Subject: **2481 Deerwood Drive, Property Line Sound Level Evaluation  
San Ramon, California  
Project Operations Noise  
Veneklasen Project No. 6469-009**

Dear Heide:

Veneklasen Associates, Inc. (Veneklasen) provides this letter in response to the request for confirmation that the project's scheduled and specified mechanical equipment will comply with City Municipal Code Requirements.

**Criteria**

The City of San Ramon Municipal Code Title B6 Chapter V Article 2 B6-97 states:

*B6-97. - Machinery or air conditioning equipment.*

*It is unlawful for a person to operate machinery, equipment, pump, fan, air conditioning apparatus or similar mechanical device used for commercial purposes in the manner which creates noise, unless the noise is muffled and the device is equipped with a muffler sufficient to deaden the noise.*

**Analysis**

Mechanical equipment for the project has not been selected yet and as such, Veneklasen has not reviewed the noise emitted to surrounding areas. However, the townhomes planned are anticipated to have similar mechanical equipment to the neighboring residential uses. Our predictions of noise levels at this time indicate that compliance with the Code requirement will be achieved for typical equipment anticipated and installed and located in a manner that is typical for a project of this type and size. A detailed analysis will be completed when the equipment is selected and located.

Respectfully submitted,  
**Veneklasen Associates, Inc.**



Ryan Schofield  
Senior Associate

# Memorandum

Date: August 31, 2022  
To: Heide Antonescu, Trumark Homes  
From: Sarah Chan, PE, TE, and Valerie Tan, Fehr & Peers  
Subject: **Vehicle Miles Travelled (VMT) Analysis for the Deerwood Project in San Ramon, California**

WC22-3899.00

This memorandum presents the results of a Vehicle Miles Travelled (VMT) analysis prepared for the proposed Deerwood Site Project, herein referred to as the Project, in San Ramon, California, a city in Contra Costa County (County). The primary purpose of this evaluation is to identify potential VMT impacts of the Project on the surrounding transportation system. This memorandum describes the Project, and presents the VMT methodology, results, and findings.

## Project Description

The 4.4-acre Deerwood Site Project is located at 2481 Deerwood Drive in the City of San Ramon, bounded by Deerwood Drive to the north, a vacant parcel to the south, an existing residential subdivision to the east, and Bollinger Crest Apartments to the west. The Project proposes to demolish the existing and currently occupied 51,000 square-foot office building and construct 61 units of two or three-story multifamily residential units, of which 15-percent are dedicated as affordable housing units. The project site plan is included in **Attachment A**.

## Vehicle Miles of Travelled Methodology & Significance Criteria

The California Environmental Quality Act (CEQA) Guidelines were updated in December 2019 per Senate Bill 743 (SB 743) to remove Level of Service (LOS) from CEQA analysis and require the use of VMT to evaluate a project's environmental impact on the transportation system. VMT measures the amount of driving generated by the project and thereby the effects on the environment from those miles traveled. SB 743 changes the focus of transportation impact analysis in CEQA from measuring *impacts on drivers* to measuring the *environmental impact of driving*.

Criterion B of the CEQA Guidelines Appendix G Transportation Section checklist is the formal implementation of the SB 743 requirement to analyze VMT as part of the CEQA Transportation

section. Under SB 743, congestion-related project effects (such as those measured by LOS or similar metrics) are deemed an unsuitable basis on which to determine a significant environmental effect. The relevant subsection of CEQA Guidelines section 15064.3(b) for the project reads as follows:

- (1) **Land Use Projects.** Vehicle miles traveled exceeding an applicable threshold of significance may indicate a significant impact. Generally, projects within one-half mile of either an existing major transit stop or a stop along an existing high-quality transit corridor should be presumed to cause a less than significant transportation impact. Projects that decrease vehicle miles traveled in the project area compared to existing conditions should be presumed to have a less than significant transportation impact.
  
- (4) **Methodology.** A lead agency has discretion to choose the most appropriate methodology to evaluate a project's vehicle miles traveled, including whether to express the change in absolute terms, per capita, per household or in any other measure. A lead agency may use models to estimate a project's vehicle miles traveled and may revise those estimates to reflect professional judgment based on substantial evidence. Any assumptions used to estimate vehicle miles traveled and any revisions to model outputs should be documented and explained in the environmental document prepared for the project. The standard of adequacy in Section 15151 shall apply to the analysis described in this section.

As noted in subsection (4), the City of San Ramon, using its discretion as lead agency, could select the methodology and CEQA significance criteria for use in the CEQA Transportation section. At this time the City of San Ramon has not formally adopted locally applicable CEQA metrics, methodologies, or significance criteria. For this study, the VMT methodology and significance thresholds adopted by the Contra Costa Transportation Authority (CCTA) in July 2020 and summarized in the Contra Costa County Transportation Authority Growth Management Program Implementation Guide (February 2021) were used. CCTA's VMT methodology and thresholds are specified for a variety of uses, including residential projects, as described in further detail in the sections below.

## **Methodology**

CCTA requires that VMT analysis be prepared using the Regional Travel Behavior Model (CCTA Model). For housing projects, home-based VMT per capita is used as the analysis metric. VMT calculations were prepared for the following two scenarios:

- **Baseline No Project:** VMT was calculated using the year 2022 CCTA Model.



- **Baseline Plus Project:** VMT was calculated using the year 2022 CCTA Model with the Project land use added into transportation analysis zone (TAZ) 40093.<sup>1</sup>

A Cumulative (2040) No Project and Cumulative (2040) Plus Project scenario is performed if the Project does not meet the Baseline thresholds, summarized in the section below,

The CCTA Model was used to assess total VMT and the home-based VMT per capita. The CCTA Model assigns all predicted trips within, across, or to or from the nine-county San Francisco Bay Area region onto the roadway network and the transit system by mode (single-driver and carpool vehicle, biking, walking, or transit) and transit carrier (bus, rail) for a particular scenario.

### Significance Criteria

The significance criteria summarized in the Contra Costa County Transportation Authority Growth Management Program Implementation Guide (February 2021) significance criteria states that a project would result in a significant impact under Baseline conditions if the project site TAZ exceeds 85% of the Baseline city-wide average home-based VMT per resident, or if the Project site TAZ exceeds 85% of the Baseline county-wide average home based VMT per resident, whichever is less stringent. Projects that result in a significant impact under Baseline conditions are required to identify mitigation measures. Projects that are unable to conclude a less than significant with implementation of mitigation measure finding under Baseline conditions are required to perform a Cumulative VMT analysis.

Impacts under Cumulative conditions are identified based on the Project's effect on total VMT. The normalized total VMT on all roadways within a study area is compared between Cumulative without Project and Cumulative with Project conditions. The project would result in a significant impact under Cumulative conditions if the Cumulative with Project exceeds the total VMT per service population under Cumulative without Project.

The above criteria are consistent with new developments; however, because the Project is replacing an existing occupied use, Fehr & Peers proposes to compare the proposed Project's total VMT estimate to the existing office's total VMT. Therefore, Project would result in an impact if the total VMT from the existing office is less than the total VMT for the proposed Project. The Project would be responsible for mitigating any VMT above the existing site's VMT generation.

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<sup>1</sup> The CCTA Model area is divided into geographic sub-areas called TAZs. TAZs are used in the CCTA Model to connect the land uses to the roadway network. Each TAZ includes land use information for that geographic sub-area within the model. The Project is located in TAZ 40093.

## Trip Generation

Trip generation refers to the process of estimating how much vehicular traffic a project would add to the surrounding roadway system. Project trip generation estimates are typically prepared for a 24-hour weekday period as well as the one-hour weekday morning and evening commute peak periods, when traffic volumes on adjacent streets are typically the highest. The Institute of Transportation Engineers' (ITE) published trip generation rates in their *Trip Generation Manual, 11<sup>th</sup> Edition*. This manual is a national compilation of trip generation statistics for land uses of various sizes and types.

The trip generation analysis below makes use of data compiled for the "Office" (ITE Code 710) and "Single Family Attached Housing" (ITE Code 215) land uses. Rates from this reference were used to assess the total number of trips associated with the existing office use and the proposed Project. **Table 1** presents the results of the trip generation analysis performed for the proposed Project.

**Table 1: Project Trip Generation Summary<sup>1</sup>**

ITE Code	Land Use	Amount	Daily Vehicle Trips	AM Vehicle Trips			PM Vehicle Trips		
				In	Out	Total	In	Out	Total
710	Office	51 ksf	553	68	10	78	12	61	73
215	Single Family Attached Housing	61 du	439	9	20	29	20	15	35
Delta (Housing – Office)			<b>-114</b>	-60	11	<b>-49</b>	8	-46	<b>-38</b>

Notes:

- ksf = 1,000 square feet, du = dwelling units
- Trip Generation Calculations
  - Office (ITE Code 710)
    - Daily:  $T=10.84 \times X$ ; 50% inbound, 50% outbound
    - AM Peak Hour:  $T=1.52 \times X$ ; 88% inbound, 12% outbound
    - PM Peak Hour:  $T=1.44 \times X$ ; 17% inbound, 83% outbound
  - Single Family Attached Housing (ITE Code 215)
    - Daily:  $T=7.2 \times X$ ; 50% inbound, 50% outbound
    - AM Peak Hour:  $T=0.57 \times X$ ; 31% inbound, 69% outbound
    - PM Peak Hour:  $T=0.57 \times X$ ; 57% inbound, 43% outbound

Source: Fehr & Peers; Institute of Transportation Engineers, *Trip Generation, 11<sup>th</sup> Edition*

As shown, the existing office is estimated to generate approximately 550 daily trips, 80 morning peak hour trips and 70 evening peak hour trips. The residential Project is estimated to generate approximately 440 daily trips, 30 morning peak hour trips, and 40 evening peak hour trips. Therefore, the Project is estimated to generate fewer daily and peak hour trips than the existing office use.

## Vehicle Miles of Travelled

### Project Land Use Changes

**Table 2** summarizes the land use changes made in the CCTA Model to reflect the Project.

**Table 2: Land Use Assumptions<sup>1</sup>**

Scenario	TAZ	Multi-Family Dwelling Units			Total Employment <sup>2</sup>		
		No Project	Plus Project	Difference <sup>2</sup>	No Project	Plus Project	Difference <sup>2,3</sup>
Baseline	40093	364	425	+61	1,253	1,100	-153
Cumulative	40093	375	436	+61	1,300	1,147	-153

Notes:

1. To isolate the existing office and proposed Project, and estimate the Project's total VMT, Fehr & Peers moved other existing uses, not associated with the existing office or proposed Project but assumed in TAZ 40093, to an adjacent TAZ.
2. The VMT analysis assumes additional 61 multi-family dwelling units and removal of 51,000 SF of office space.
3. Since the CCTA travel demand model uses employment as model inputs, Fehr & Peers performed the analysis assuming three employees per 1,000 SF of office space.

Source: Fehr & Peers, August 2022.

### Baseline (2022) VMT Results

The Baseline conditions were analyzed using the methodologies described above. The Baseline VMT analysis results for the Project TAZ are summarized in **Table 3** below.

**Table 3: Baseline VMT Analysis Summary**

Scenario	Total VMT	Service Population	Total VMT per Service Population
2022 No Project (Existing Office Use)	5,386	153	35.2
2022 Plus Project (Residential Townhomes)	3,490	150	23.3
<b>Delta</b>	<b>-1,896</b>	<b>-3</b>	<b>-11.9</b>

Notes:

1. Service population refers to the total number of employees and residents within the existing office and proposed residential Project.
2. Service population estimates:  
 Office: 3 employees per 1,000 square feet (51 ksf x 3 employees/ksf = 153 employees)  
 Residential: 2.46 residents per dwelling unit (61 townhomes x 2.45 residents/townhome = 150 residents)

Source: Fehr & Peers, August 2022.

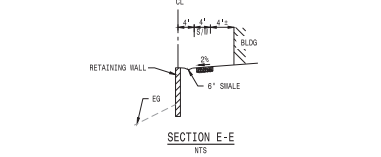
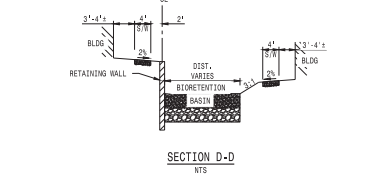
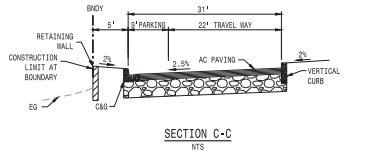
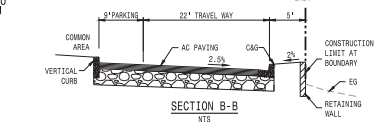
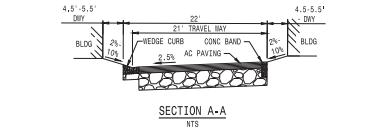
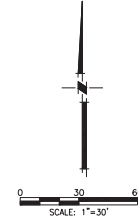
As show in **Table 3**, the existing office site is estimated to produce approximately 5,400 VMT, resulting in a VMT per service population of 35.2. The proposed Project is expected to generate 3,490 total VMT, resulting in 23.3 VMT per service population. Therefore, since the proposed Project is expected to generate fewer total VMT, the Project is estimated to result in **no impact** to VMT and no mitigation measures would be required.

This completes our analysis of the Deerwood Residential Project in San Ramon. Please contact Sarah Chan at 925-930-7100 if you have questions or comments.

**Attachments:**

Attachment A: Project Site Plan

# Attachment A: Project Site Plan



- GENERAL NOTES:**
1. RETAINING WALLS AND ASSOCIATED GRADING SHOWN FOR GENERAL INFORMATION ONLY AND ARE SUBJECT TO ADJUSTMENT AT FINAL DESIGN TO MEET OVERALL GRADING INTENT.
  2. ALL BUILDING PAD GRADES AND STREET GRADES ARE PRELIMINARY AND SUBJECT TO ADJUSTMENT DURING FINAL DESIGN.

DATE	04/11/2022
SCALE	AS SHOWN
DRAWN BY	TL
CHECKED BY	TL
DESIGNED BY	TL
PROJECT NO.	22094_000.DD
SHT	TM 5
OF	8

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