Initial Study / Mitigated Negative Declaration

Solana Way Senior Assisted Living and Memory Care Project

Prepared by:

City of Temecula
Community Development Department
41000 Main Street
Temecula, CA 92590
(951) 694-6400

May 2020

Overview

This Initial Study / Mitigated Negative Declaration has been prepared for the Solana Way Senior Assisted Living and Memory Care project. An Initial Study Checklist and environmental analysis has been prepared to determine the appropriate type of California Environmental Quality Act (CEQA) document.

The CEQA Guidelines Appendix G Initial Study Checklist was updated in 2019 to modify some of the checklist questions and add additional checklist topical areas. As documented in the attached Initial Study checklist, the proposed project results in potentially significant impacts, requiring mitigation measures. The mitigation measures contained in the Initial Study / Mitigated Negative Declaration reduce the potentially significant impacts to less than significant. As such, a Mitigated Negative Declaration is the appropriate California Environmental Quality Act (CEQA) document for the proposed project.

City of Temecula

Initial Study / Environmental Checklist

Project Title	Solana Way Senior Assisted Living and Memory Care Project
Lead Agency Name and Address	City of Temecula 41000 Main Street, Temecula CA 92590
Contact Person and Phone Number	Scott Cooper, Associate Planner (951) 506-5137
Project Location	The Project is located in the central northeastern portion of the City of Temecula, which is located within the County of Riverside approximately 85 miles southeast of Los Angeles, 60 miles northeast of San Diego, and 25 miles inland from the Pacific Ocean (**Figure 1**). The Project is located within a mixed commercial and residential area in the City of Temecula. Locally, the Project has existing public streets on three sides of the property and is located at the southeast corner of Margarita Road and Solana Way east of Interstate 15 (I-15), east of Ynez Road, and south of State Route 79 (SR-79) encompassing Parcels 1 through 4 of Recorded Parcel Map 13275 (**Figure 2**).
Project Sponsor's Name and Address	Griffin Fine Living, LLC 24005 Ventura Boulevard, Calabasas, CA 91302
General Plan Designation	Professional Office (PO) and Open Space (OS). A portion of the project site has no General Plan land use designation, due to a recorded tract map cul-de-sac. (**Figure 3**)
Zoning	Professional Office (PO) and Open Space-Conservation(OS-C). A portion of the project site has no Zoning designation, due to a recorded tract map cul-de sac. (**Figure 4**)
Description of Project	The proposed Solana Way Senior Assisted Living and Memory Care Facility (Project) includes development of an approximately 91,002-square foot assisted living and memory care facility with various amenities, a front entry porte-cochere, two (2) large courtyards, landscape and hardscape improvements, walkways, driveways, parking spaces, and public street widening and improvements on the 4.69 acre site. The proposed facility would include a total of 107 suites for senior care. 75 suites are proposed for senior assisted living care and 32 suites for senior memory care. The Site contains what is considered a remnant of a mapped 1970 USGS blueline drainage course, and associated riparian vegetation, which is attributed to a piped tributary flow from developed areas and installed storm drains. A primary project design feature is avoidance and conservation of the onsite riparian vegetation to the maximum extent practicable. Most suites would be "private suites" occupied by 1 person, with an average age of 80 years old. Most suites are studio or 1-bedroom apartments, excluding four 2-bedroom apartments designed for two-person occupancy. Each suite would contain one (1) ADA-compliant bathroom with a sink, toilet, and shower stall; a sitting area; a washer and dryer; and a convenience area with a refrigerator and sink. The total Project footprint

	is 49,115 square feet with onsite amenities that include exercise rooms, theater and entertainment areas, outdoor courtyards with walking paths, patios, shade gardens, ponds, fountains, and relaxation and recreation areas. The Project would also include nurses' stations, administrative offices, and business offices. A shuttle service would be provided for residents to access the nearby Temecula Promenade Mall, local doctors' appointments, and other community businesses and services. Project sustainability measures include the implementation of California Green Building Code Standards and utilization of energy efficient building materials, appliances, lighting and mechanical systems, and water efficient plumbing systems. ► Comply with Cal Green Tier 1 Standards ► Install real-time energy monitors to track energy use ► Install new sidewalks and paving with high solar reflectivity materials ► Install bicycle parking consistent with regulation ► Increase diversion of construction waste ► Reduce potable water use for outdoor landscaping ► Install City-issued water meters that track real time water use with data logging equipment if necessary ► Install low water use landscapes ► Minimize construction idling time to 5 minutes or less ► Maintain construction equipment per manufacturer's specs Operations. The facility would operate 24 hours a day seven (7) days a week with quiet hours from eight PM to seven AM. All residents would live onsite full time. The facility would be staffed by 80 full time equivalent staff, operating in three (3) daily shifts with a maximum of 28 employees per shift. Staff would consist of a 24-hour security guard, administrative staff, kitchen staff, wait staff, housekeeping staff, and nursing staff. The site plan is depicted in **Figure 5**, with a project perspective shown in **Figure 6**. Project elevations are shown in **Figures 7 and 8**. Existing Site Conditions. The Project Site is currently vacant and undeveloped grassland with a mature riparian corridor that traverses westerly from the southeastern portion of the Site to the northwestern portion. A cellular tower is located in the northwestern corner, no other structures exist on the property. Existing General Plan/Zoning Designations. The existing General Plan land use designation for the Project Site is split zoned as Professional Office (PO) and Open Space (OS). The proposed Project encompasses Parcels 1 through 4 of the recorded Parcel Map 13275. Building structures are planned over Parcels 1, 2, and 4. Parcel 3 would be left designated as OS. The dedicated existing street Right of Way (ROW) would be vacated to increase the total acreage of the adjacent parcels. Parcel 3 will increase in dedicated OS as a result of the Street Vacation. Parcels 1, 2, and 4 would be merged into one Parcel. The Project is a Permitted Use of the PO Zone

	in accordance with the City of Temecula Zoning Ordinance definition of "Congregate Care Housing for the Elderly". The Project would be subject to the High-Density Residential Zoning Code and Development Standards. Project Objectives. The project objectives include: ▸ Create a senior/assisted living development compatible with and sensitive to the existing land uses and biological resources in the project area. ▸ Provide a high-quality residential development that would help to fulfill the City's regional senior/assisted living housing needs. ▸ Promote the development of residential land uses that convey a high-quality architectural/visual image and character. ▸ Complete a portion of the missing link in the regional storm drain system. ▸ Mitigate impacts to onsite biological resources at a 3:1 ratio. Required Discretionary Actions. The Project would require the following discretionary entitlements from the City of Temecula: development plan approval, minor Conditional Use Permit (CUP), road vacation of Calle Prima Vera and Los Campos Verdes, and parcel merger of Parcels 1, 2, and 4. A general plan amendment and zone change is not required for the portion of the project site with no general plan land use or zoning designation. Should the project be approved, the existing general plan land use and zoning designations will be administratively adjusted to meet at the centerline of the recorded cul-de-sac area per City of Temecula policy. Access and Parking. Regional access to the Project Site is provided via I-15 from the Rancho California Road or Winchester Road interchanges. Local access to the Project Site is currently provided via Margarita Road and Solana Way. Access to the future development within the Project Site would be provided by Margarita Road and Solana Way. Emergency and fire access would be provided from Via La Vida. A total of 79 parking spaces would be included and located to the north, south, and southeast in the Project Site. Utilities/Infrastructure Improvements. Implementation of the Project would require the construction of public facilities and services to serve the development of 107 senior residential suites. Services include water, wastewater, storm drainage, electricity, natural gas, telecommunications, and solid waste disposal. Electricity is provided by SCE and natural gas is provided by the Southern California Gas Company. Solid waste disposal is provided by CR&R and a variety of companies provide tele communications. Water Supply. The Rancho California Water District (RCWD) is the water provider for the Project Site and the City. The Project would provide connections to the existing water servicing lines. The water system design is consistent with the RCWD and the City's Public Works Department. The Project applicant is required to pay a water service charge to RCWD to maintain and upgrade its system.

	Wastewater. Wastewater facilities for the Project Site and the City are provided by the Eastern Municipal Water District (EMWD). Wastewater produced by Project will be treated by the Temecula Valley Regional Water Reclamation Facility, located at 42565 Avenida Alvarado, Temecula. Stormwater. Drainage on the Site currently drains in a westerly direction towards Margarita Road, where stormwater flows into an existing storm drain system. Multiple storm drains from surrounding developments to the east surface drain into and through the existing Site. A drainage course runs through the property from east to west and drainage enters into a 72-inch public storm drain inlet located along the northwestern property boundary near Margarita Road. Portions of the project site are below the existing storm drain inlet elevation, creating a ponding condition near Margarita Road following storm events. The Project is designated a Priority Development Project and is required to comply with the development planning requirements of the San Diego Regional Water Quality Control Board (SDRWQCB) MS4 permit and the City of Temecula Stormwater Ordinance. The proposed Project design implements non-structural, structural, source control and treatment control Best Management Practices (BMPs), which can include infiltration basin, detention basin, vegetated swale, media filter, pervious concrete, storm drain stenciling or signage, protection of material and trash storage areas from rainfall, and vector avoidance strategies. The proposed Project Site drainage would implement the following BMPs in accordance with the Water Quality Management Plan: capture and convey stormwater runoff from developed areas to underground retention/detention stormwater water quality mitigation system via private storm drain inlets and drainage networks. Furthermore, the existing public storm drain system near Margarita Road will be extended throughout the Site to convey off-Site and development drainage . The onsite ponding condition following storm events would remain following project implementation, and would be pushed further east, adjacent to the proposed storm drain inlet structure. Ponded water is expected to percolate into the groundwater within 24 hours of the end of a storm event. Biological Resources: The project Site contains the remnant of a mapped 1970 USGS blueline drainage course after 39 years of the nearly total buildout of the City surrounding the Site. Parcel 3 will remain as dedicated open space to maintain the lot's natural state. Additionally, the dedicated street adjacent to Parcel 3 would not be developed to extend total undisturbed area onsite. Due to the mapped drainage course and existing riparian vegetation, a portion of the Site is considered as jurisdictional area with the State of California Department of Fish and Wildlife (CDFW), Western Riverside County Regional Conservation Authority (WRCA), United States Army Corps of Engineers (USACE), and the State of California Regional Water Quality Control Board (RWQB). The estimated permanent jurisdictional impacts are approximately 0.12 acre; 600 linear feet for the USACE and approximately 0.6 acre for CDFW. The project development would qualify for a Nationwide Permit with a total 3:1 mitigation ratio under the USACE. The CDFW Section 1602 Streambed Alteration Agreement with mitigation is also required as part of the Project under the CDFW. A

<table>
<tr><td></td><td>Determination of Biological Equivalent or Superior Preservation (DBESP) is required to be approved by the state and federal resource agencies.

<u>Site Preparation and Construction.</u> Construction would occur over a 14-month construction period. Site preparation would require preliminary grading cut of approximately 8,000 cubic yards and import of 12,000 cubic yards. Construction equipment expected to be utilized during Site preparation and grading activities includes tractors, backhoes, haul trucks, graders, pavers, and water trucks. Staging would occur onsite. After completion of Site grading construction of the building pad would occur, followed by project construction. In addition to the facility the following would be installed: utilities, storm drains, catch basins, sidewalks, curbs, gutters, striping, landscaping, fences, walls, and lighting.</td></tr>
<tr><td>Surrounding Land Uses and Setting</td><td>The following describes each land use surrounding the Project Site:
▸ North – The Project Site is bordered immediately to the north by Solana Way. The area across Solana Way is developed with the Solana Ridge Apartments which includes 312 apartment units and a clubhouse, spa/hot tub, tennis courts, playground area, and a dog park.
▸ West – The Project Site is bordered immediately to the west by the Margarita Road. The area across Margarita Road is developed with the Motor Car Parkway and the existing Vista Promenade Luxury Apartment Homes, which consists of single-family units, courtyards, pools, spa/hot tub, tennis courts, playground area, dog park, BBQ and picnic areas, and a hiking trail.
▸ South – The Project Site is bordered immediately to the south by Via La Vida. The area across Via La Vida is developed with Sycamore Terrace Apartments, which includes 225 units (1 to 3-bedroom apartments) and courtyards, playground area, volleyball courts, pools, hot tub/spa, BBQ and picnic areas, basketball courts, and tennis courts.
▸ East – The Project Site is bordered immediately to the east by a vacant, undeveloped property.</td></tr>
<tr><td>Public Agencies Whose Approval is Required</td><td>The Project is anticipated to require the following review and approvals:
<table>
<tr><th>Agency</th><th>Action</th></tr>
<tr><td>City of Temecula</td><td>• Approval of Development Plan
• Adoption of Mitigated Negative Declaration and MMRP
• Approval of Conditional Use Permit
• Approval of Parcel Merger
• Approval of Roadway Vacation
• Ministerial approvals including WQMP, grading permit, building permit.</td></tr>
<tr><td>U.S. Army Corps of Engineers</td><td>Review and approval of Section 404 Nationwide permits and mitigation measures.</td></tr>
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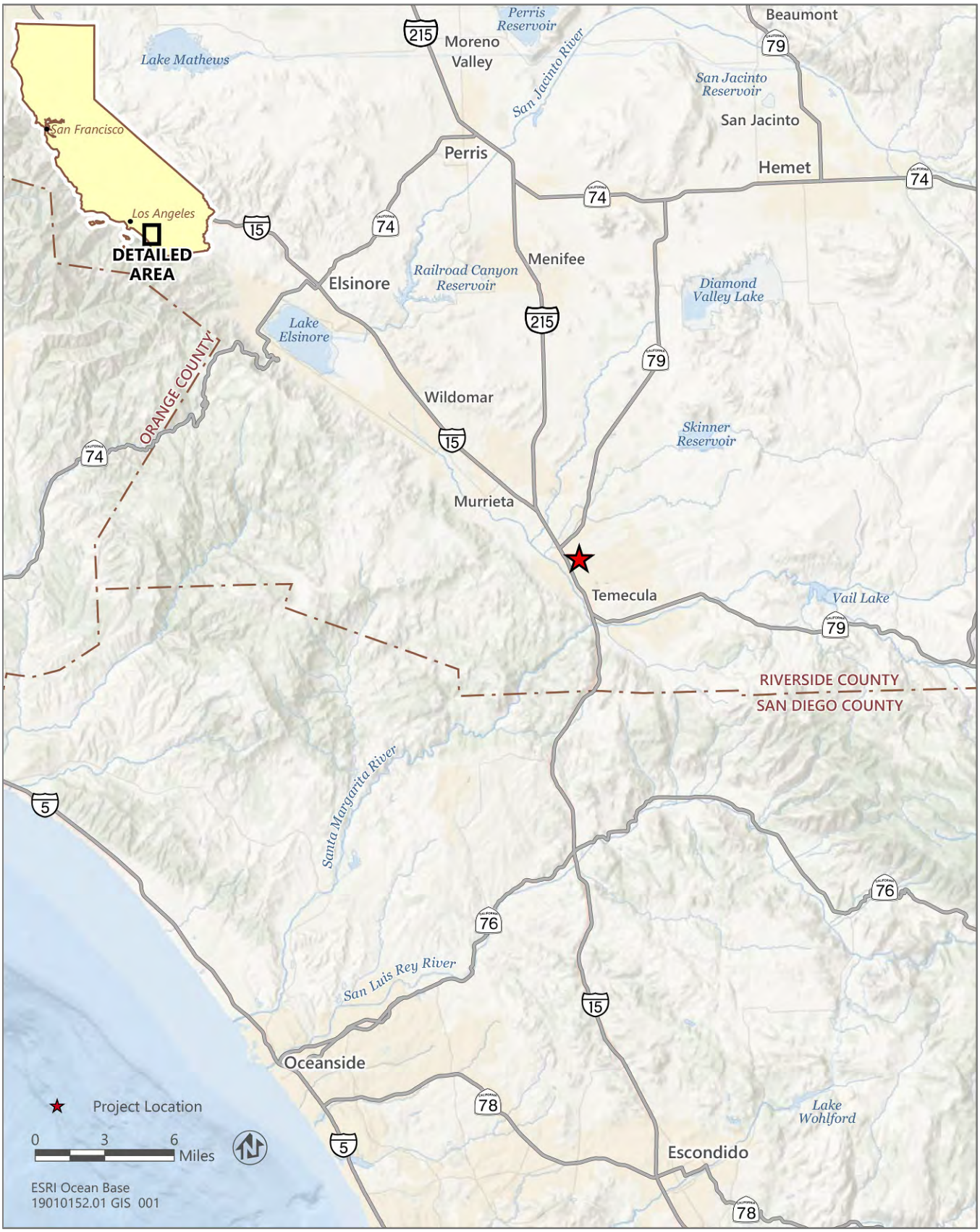
	California Department of Fish and Wildlife	Review and approval of 1602 Streambed Alteration Agreement and mitigation measures. DBESP approval.
	Regional Water Quality Control Board	Review and approval of Section 401 CWA storm water permits
	Eastern Municipal Water District	Review and approval of sewer plans
	Rancho California Water District	Review and approval of water plans
	U.S. Fish and Wildlife Service	Review and approval of Habitat Assessment and DBESP
	Western Riverside County Regional Conservation Authority (RCA)	Approval of HANS and DBESP

Figures

Appendix

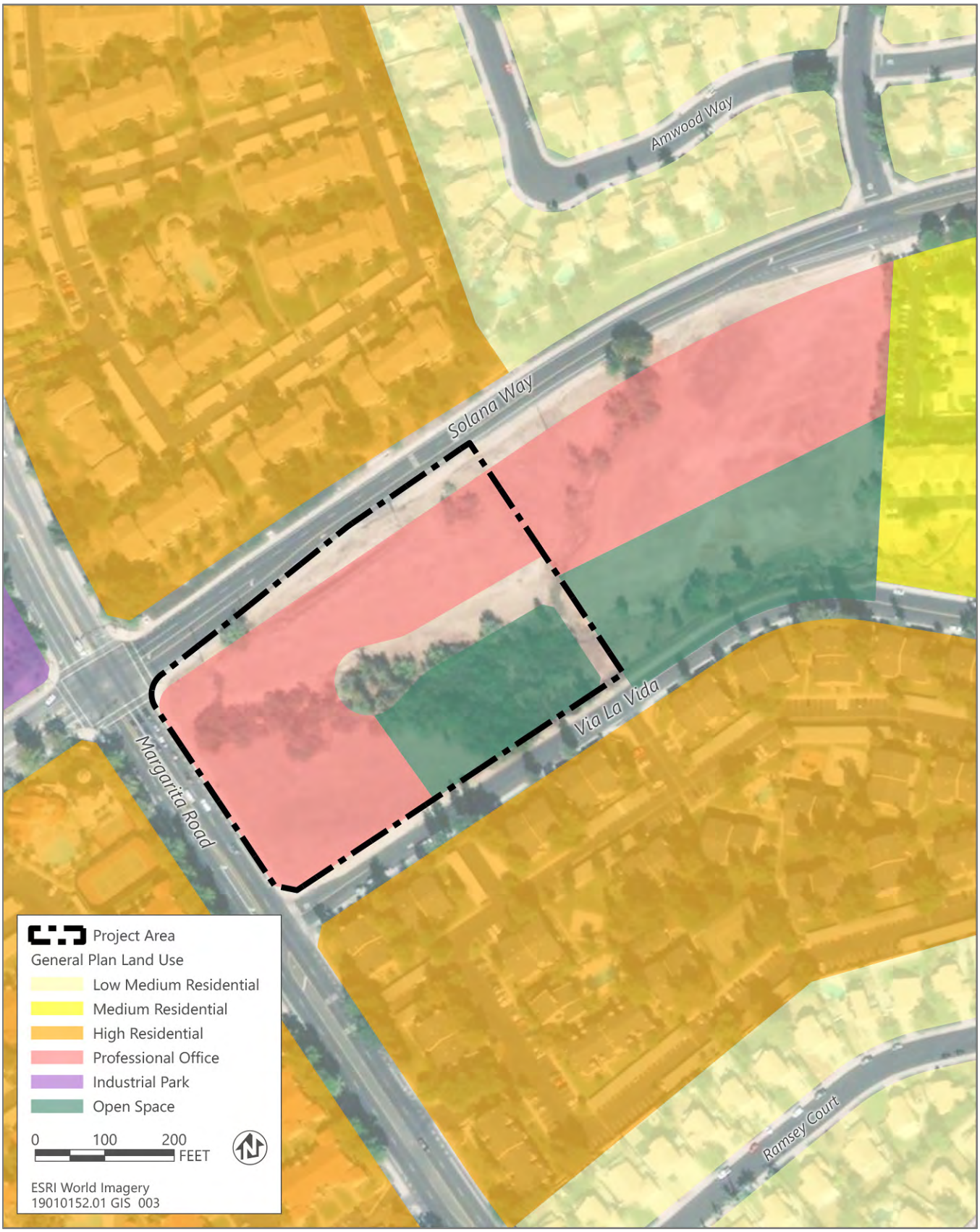


Source: adapted by Ascent Environmental in 2020

Figure 1 Regional Location

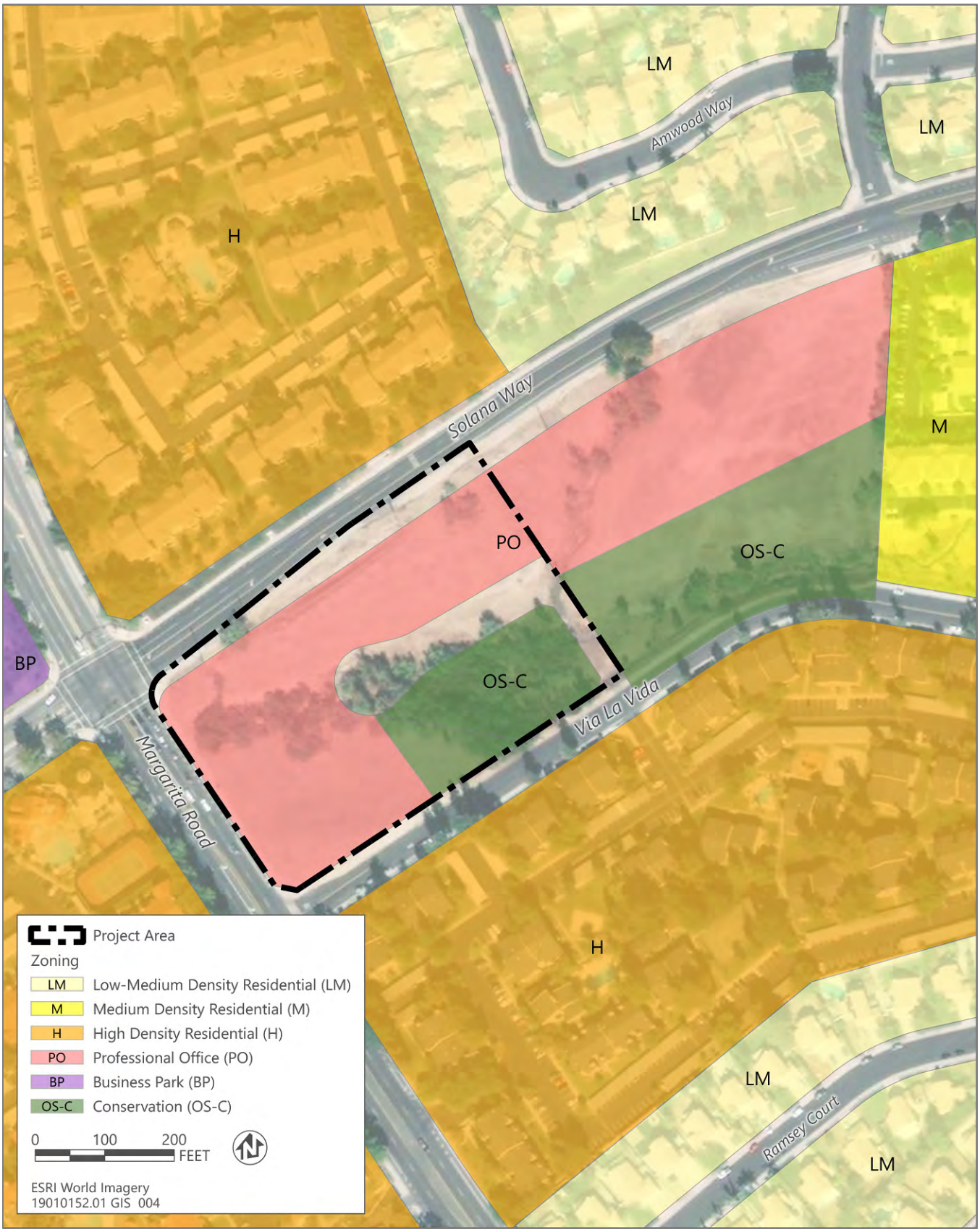
Source: adapted by Ascent Environmental in 2020

Figure 2 Project Vicinity Map



Source: Data downloaded from the City of Temecula in 2019

Figure 3 Existing General Plan Land Use



Source: Data downloaded from the City of Temecula in 2019

Figure 4 Existing Zoning

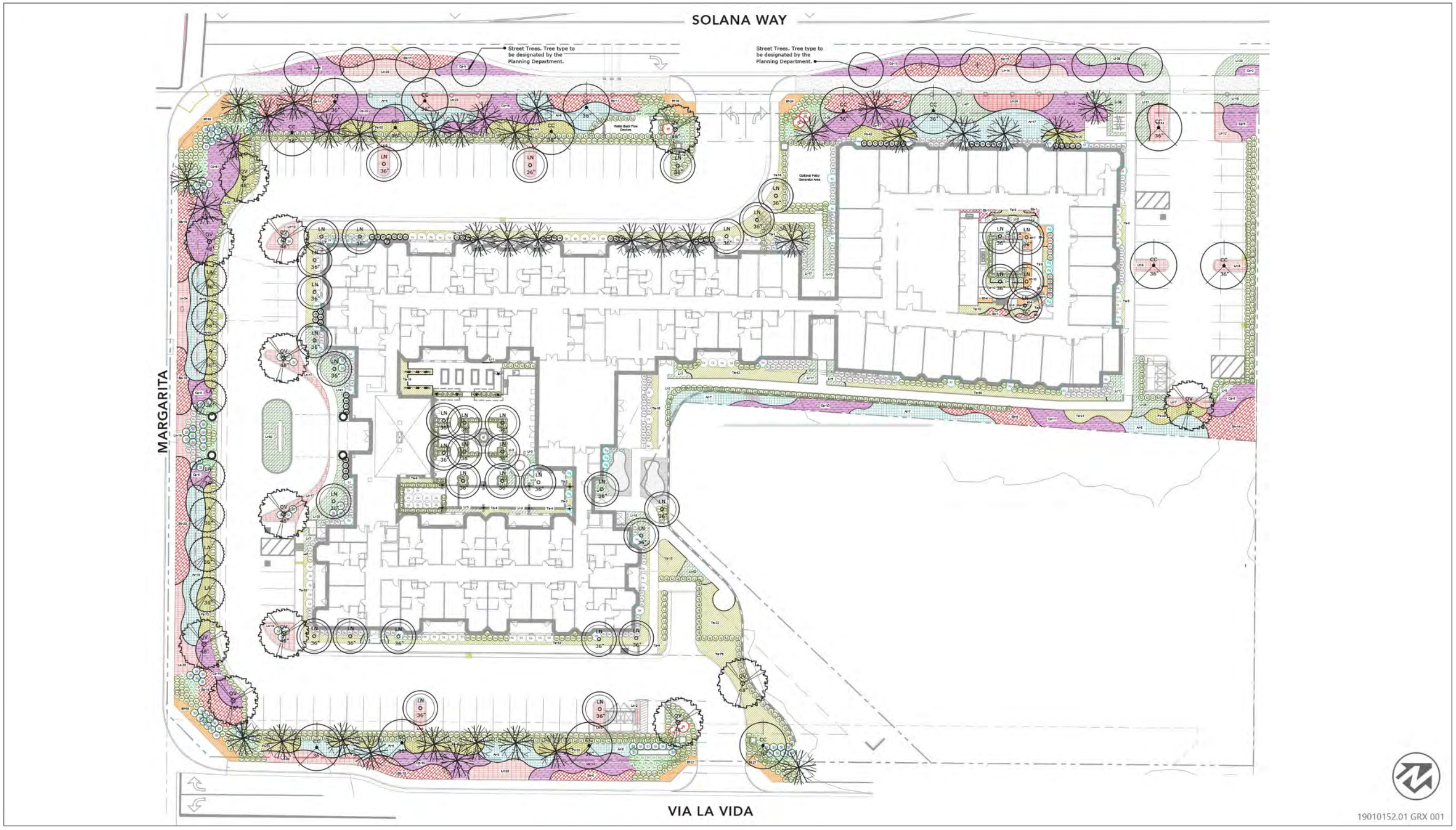
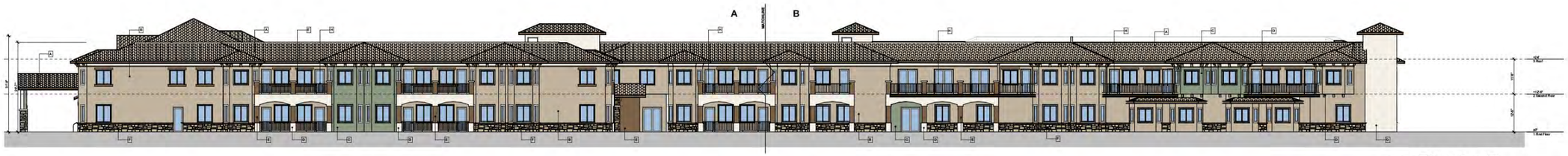


Figure 5 Site Plan

19010152.01 GRX 002

Figure 6 Project Perspective



01 Elevation D
SCALE: 1/16" = 1'-0"

A Elevation D
SCALE: 1/8" = 1'-0"

B Elevation D
SCALE: 1/8" = 1'-0"

19010152.01 GRX 003

Figures 7 Project Elevations – A

01 Elevation B
SCALE: 1/16" = 1'-0"

A Elevation B
SCALE: 1/8" = 1'-0"

B Elevation B
SCALE: 1/8" = 1'-0"

19010152.01 GRX 003

Figure 8 Project Elevations – B

Environmental Factors Potentially Affected			
The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.			
	Aesthetics		Mineral Resources
	Agriculture and Forestry Resources		Noise
	Air Quality		Population/Housing
	Biological Resources		Public Services
	Cultural Resources		Recreation
	Energy		Transportation
	Geology/Soils		Tribal Cultural Resources
	Greenhouse Gas Emissions		Utilities/Service Systems
	Hazards and Hazardous Materials		Wildfire
	Hydrology/Water Quality		Mandatory Findings of Significance
	Land Use/Planning		

Determination (To be completed by the lead agency)	
On the basis of this initial evaluation:	
	I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
X	I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
	I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
	I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
	I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier INITIAL STUDY or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier INITIAL STUDY or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Signature

5·22·20
Date

Scott Cooper
Printed Name

City of Temecula
For

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

Comments:

1.a. **Less Than Significant Impact**. Scenic vistas are views defined as having a valued resource and typically contain scenes such as waterways, the ocean, hills, valleys, or mountains. The City of Temecula contains several scenic vistas which include the hills surrounding the City of Temecula and Santa Ana Mountains to the west and southern ridgelines, the Santa Margarita River, the slopes in the Sphere of Influence located west and east of the City limits and other important landforms and historic landscape features. The rolling hills surrounding the City of Temecula to the south east, and west are designated by the General Plan Community Design Element as important natural features whose public views should be protected and maintained. Therefore, all public and private development projects are subject to review by the City to ensure consistency with the General Plan Community Design Element to maintain public views of scenic resources.

A portion of the I-15 from Corona South to the San Diego County line has been named as an Eligible State Scenic Highway. At this time, this area of the I-15 has been designated but is not yet considered a State Scenic Highway (Caltrans, 2016).

The Project Site contains undeveloped grassland and riparian woodland, within relatively flat terrain. Residences surround the Project Site to the north, south, and west, with the residences located to the north of the Project Site are slightly elevated above Solana Way. Views of the surrounding area, specifically of the Sant Ana Mountains, would not be substantially obstructed or impacted by Project development due to the lower elevation of the Project Site compared to the adjacent residential areas. Furthermore, the Project is required to comply with the General Plan Community Design Element and is subject to review by the City for consistency. Therefore, development within the Project area would result in less than significant impacts related to scenic vistas and therefore the effects would be less than significant.

1.b. **Less Than Significant Impact**. The Project Site, nearby roadways, and surrounding land are not considered a state scenic highway corridor. Within Riverside County the closest designated State Scenic Highways are along SR-74 and SR-243. The area designated as a State Scenic Highway is not visible from the Project Site or the surrounding area and is located approximately 50 miles northeast of the Project Site. The Project is located adjacent to the I-15, which is designated by Caltrans as an Eligible State Scenic Highway; however, it is not officially designated as a State Scenic Highway by Caltrans. Public views of the distant mountains (Cleveland National Forest) to the south from I-15 would not be obscured by development of the Project. Under the Project, public views of the Site would change from a vacant Site with grassland vegetation and a mature riparian corridor to a built environment with a two-story residential care facility. However, the proposed Project is consistent with surrounding residential and commercial uses. In addition, the

Project is located at a lower elevation than the residential development to the north of the Site and would not further impede views. Therefore, no new or substantially more severe impacts would occur to passenger views along the I-15 and impacts would be less than significant.

1.c. **Less Than Significant Impact**. The Project Site is currently vacant and undeveloped grassland with mature trees and a riparian corridor but is located in an urbanized area. The Project would modify the existing visual character and quality of the site; however, the proposed residential care facility is located with an urban area and is consistent and visually compatible with the uses located immediately to the north, east, and southwest of the Project Site. Additionally, the building is a Permitted Use of the Professional Office (PO) zone in accordance with the City of Temecula Zoning Ordinance definition of "Congregate Care Housing for the Elderly" and is subject to the High-Density Residential Zoning Code and Development Standards. Because the visual character would be similar to the surrounding apartment complexes and is a permitted use under the current zoning, the Project is consistent with surrounding land uses and would have a less than significant impact on the visual character of the area.

1.d. **Less Than Significant Impact**. The Project Site is located within a developed and urban area within the City of Temecula. New sources of exterior lighting and interior lighting would be included as part of the Project and be subject to light pollution regulations in Section 17.22.176 of the City of Temecula Municipal Code, the County of Riverside's Mount Palomar Light Pollution Ordinance, and the City of Temecula General Plan Policy 2.5 in the Community Design Element. Lighting would be downward shielded and dark sky compliant to minimize lighting and glare.

Daytime glare is attributed to the reflection of artificial and natural lighting off of highly reflective surfaces, such as windows. Mid- to High-rise buildings with large surface areas of reflective or mirrorlike materials are a common source of daytime glare, especially around sunrise and sunset. The proposed Project is a 2-story building which would be built with textured, non-reflective surfaces, non-reflective (mirrored) glass and downward shielded lighting to minimize glare and prevent spillover onto adjacent structures. As a result, the Project would result in a less than significant light and glare impacts.

References:

California Department of Transportation (Caltrans). 2016. California Scenic Highways Mapping System.

2. AGRICULTURE AND FOREST RESOURCES. In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:

	Issues and Supporting Information Sources	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a	Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				X
b	Conflict with existing zoning for agricultural use, or a Williamson Act contract?				X
c	Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?				X
d	Result in the loss of forest land or conversion of forest land to non-forest use?				X
e	Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?				X

Comments:

2.a. and b. No Impact. The Project Site is currently undeveloped land surrounded by an urban area. The Project Site is located on the corner of a busy intersection within a mixed commercial and residential area of the City of Temecula. The Project Site is located approximately 2,400 feet to the east of the I-15 freeway corridor. Adjacent and surrounding properties consist mainly of residential and commercial uses and do not contain agricultural uses or related operations. As shown in Figure OS-3, of the City of Temecula General Plan, the Project Site is not located on Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. The Project Site is currently zoned Professional Office (PO) and Open Space (OS). No area of the Project Site or adjacent land uses are zoned for agriculture and no nearby lands are enrolled under the Williamson Act. The Project would have no impact and analysis of this issue in the Initial Study is not necessary.

2.c through d. No Impact. The Project Site contains several mature trees surrounding the riparian corridor; however no forest land exists on the Project Site. The Project Site is located in an urban area and is currently zoned Professional Office (PO) and Open Space (OS) and is not zoned for forest land or timberland nor would Project construction impact or result in the loss of forest land or convert forest land into non-forest use. Therefore, the Project would not conflict with existing zoning for forest land or timberland, and no impact would occur. The Project would have no impact and analysis of this issue in the Initial Study is not necessary.

2.e. **No Impact**. No agricultural uses, forest uses, or related uses are located on or near the Project Site. Consequently, implementation of the Project would not result in the conversion of farmland or forest land to other uses, either directly or indirectly. The Project would have no impact and analysis of this issue in the Initial Study is not necessary.

References:

City of Temecula, Temecula General Plan, 1993, Updated 2005, Open Space Conservation Element, Figure OS-3, Agricultural Resources, page OS-19.

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

ENVIRONMENTAL SETTING

The Project site is located in the western portion of Riverside County within the South Coast Air Basin (SCAB), an approximately 6,745 square mile area bounded by the Pacific Ocean to the west; the San Gabriel, San Bernardino, and San Jacinto mountains to the north and east; and San Diego County to the south. The SCAB includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino counties, in addition to the Coachella Valley areas in Riverside County. The regional climate within the SCAB in considered semi-arid and is characterized by warm summers, mild winters, infrequent seasonal rainfall, moderate daytime onshore breezes, and moderate humidity. The air quality within the SCAB is primarily influenced by meteorology and a wide range of emissions sources, such as dense population centers, heavy vehicular traffic, and industry.

Air pollutant emissions within the SCAB are generated primarily by stationary and mobile sources. Stationary sources can be divided into two major subcategories: point and area sources. Point sources occur at a specific location and are often identified by an exhaust vent or stack. Examples include boilers or combustion equipment that produce electricity or generate heat. Area sources are widely distributed and include such sources as residential and commercial water heaters, painting operations, lawn mowers, agricultural fields, landfills, and some consumer products. Mobile sources refer to emissions from motor vehicles, including tailpipe and evaporative emissions, and are classified as either on-road or off-road. On-road sources may be legally operated on roadways and highways. Off-road sources include aircrafts, ships, trains, and self-propelled construction equipment. Air pollutants can also be generated by the natural environment, such as when high winds suspend fine dust particles.

The portion of Riverside County where the Project is located is currently in nonattainment for the national ambient air quality standards (NAAQS) for ozone and fine particulate matter ($PM_{2.5}$) and the California ambient air quality standards (CAAQS) for ozone, respirable particulate matter (PM_{10}), and $PM_{2.5}$ (CARB 2019).

THRESHOLDS OF SIGNIFICANCE

The South Coast Air Quality Management District (SCAQMD) serves as the air district that regulates emissions of air pollutants within the SCAB. Guidance provided by SCAQMD indicates that a project would result in a potentially significant air quality impact if a project would (SCAQMD 2017):

- generate construction emissions in exceedance of 100 pounds per day (lbs./day) of oxides of nitrogen (NO_X), 75 lbs./day of reactive organic gases (ROG), 150 lbs./day of PM_{10} and oxides of sulfur (SO_X), 55 lbs./day of $PM_{2.5}$, 550 lbs./day of carbon monoxide (CO), and 3 lbs./day of lead;

- generate operational emissions in exceedance of 55 lbs./day of NO_X and ROG, and $PM_{2.5}$, 150 lbs./day of PM_{10} and SO_X, 550 lbs./day of CO, and 3 lbs./day of lead;
- generate long-term operational mobile-source CO emissions that would result in, or contribute to, an exceedance of the CAAQS (exceedance of 20 parts per million [ppm] over a 1-hour period or exceedance of 9 ppm over an 8-hour period) or NAAQS (exceedance of 35 ppm over a 1-hour period or exceedance of 9 ppm over an 8-hour period) for CO;
- expose sensitive receptors to toxic air contaminant (TAC) concentrations that result in an incremental increase in cancer risk greater than 10 in one million and/or a noncarcinogenic hazard index of 1.0 or greater; and/or
- create objectionable odors.

Projects that exceed these thresholds of significance would produce emissions that would conflict with the SCAB's overall maintenance or attainment of the NAAQS and CAAQS for criteria air pollutants. The NAAQS and CAAQS represent concentrations of criteria air pollutants protective of human health and are substantiated by extensive scientific evidence. The U.S. Environmental Protection Agency (EPA) and the California Air Resources Board (CARB) recognize that ambient air quality below these concentrations would not cause adverse health impacts to exposed receptors. In connecting an air district's (i.e., SCAQMD) thresholds of significance to its anticipated date of attainment, projects that demonstrate levels of construction and/or operational emissions below the applicable thresholds would not result in cumulatively considerable emissions that would cause an adverse health impact related to exposure to criteria air pollutants in elevated concentrations.

Similarly, projects that demonstrate emissions levels in exceedance of an applicable threshold could contribute to the continued nonattainment designation of a region or potentially degrade a region from attainment to nonattainment. Resulting acute or chronic respiratory and cardiovascular illness could occur, with symptoms including coughing, difficulty breathing, chest pain, eye and throat irritation and, in extreme cases, death caused by exacerbation of existing respiratory and cardiovascular disease, cancer, impaired immune and lung function.

Projects that generate odors would be subject to SCAQMD's Rule 202, "Nuisance," which stipulates that persons shall not discharge quantities of odors or other materials that could cause injury, detriment, nuisance, or annoyance to a considerable number of persons or to the public.

3.a. **Less-than-significant Impact**. The 2016 Air Quality Management Plan (2016 AQMP) serves as SCAQMD's state implementation plan (SIP) submittal to CARB to track the path towards the SCAB reaching attainment under the NAAQS and CAAQS. The Project Site is designated as PO and OS. The Project is a Permitted Use of the PO Zone in accordance with the City of Temecula Zoning Ordinance definition of "Congregate Care Housing for the Elderly" and would therefore be consistent with existing general plan land use designations.

The project-level thresholds of significance identified below in the discussion under Impact 3.b were developed by SCAQMD in consideration of the AQMP and efforts to achieve attainment of ambient air quality standards. Therefore, projects that emit criteria air pollutants and precursors in levels below these thresholds would be consistent with the 2016 AQMP.

Emissions of criteria pollutants and precursors were modeled using the California Emissions Estimator Model (CalEEMod) Version 2016.3.2 computer program (CAPCOA 2016). Detailed information regarding modeling assumptions and outputs can be found in Appendix A. Project construction would generate exhaust emissions from construction equipment and vehicle trips, fugitive dust from demolition and ground disturbing activities, and off-gas emissions from architectural coatings and paving. Operation of the Project would increase the amount of operational air emissions from vehicles accessing the project site (mobile sources), natural gas consumption (energy sources), and use of consumer products and operation of landscaping equipment (area sources). However, as discussed below, construction and operation of the project would not result in daily emissions in exceedance of the SCAQMD's CEQA thresholds of significance for emissions of ROG, NO_X, PM_{10}, and $PM_{2.5}$. As discussed above, the SCAB is in nonattainment for several of the NAAQS (ozone and $PM_{2.5}$) and CAAQS (ozone, PM_{10}, and $PM_{2.5}$). Because emissions of ROG, NO_X, $PM_{2.5}$, and PM_{10} would not exceed these thresholds, construction- and operation-related emissions of criteria air pollutants and precursors would not conflict with an applicable AQMP. This impact would be less than significant.

3.b. **Less-than-Significant Impact**. As discussed above, construction of the Project would generate criteria pollutants and precursor emissions from the use of heavy-duty equipment, worker commute trips, and fugitive dust emissions. Construction would commence mid-2020 and occur over a 14-month period ending in 2021. Air quality calculations are included in Appendix A.

Table 3-1 summarizes the projected construction emissions that would be generated by the Project:

Table 3-1 Maximum Daily Emissions of Criteria Pollutants and Precursors Associated with Construction of the Project

Year	ROG (lb./day)	NO_X (lb./day)	PM_{10} (lb./day)	$PM_{2.5}$ (lb./day)
2020	4	43	20	12
2021	12	19	2	1
SCAQMD Significance Criteria	75	100	150	55

Notes: ROG = reactive organic gases, NO_X = oxides of nitrogen, PM_{10} = respirable particulate matter, $PM_{2.5}$ = fine particulate matter, lb./day = pounds per day, SCAQMD = South Coast Air Quality Management District

Source: Modeling conducted by Ascent Environmental in November 2019 using CalEEMod v. 2016.3.2

As shown in Table 3-1, construction-generated emissions of ROG, NO_X, PM_{10}, and $PM_{2.5}$ would not exceed SCAQMD's CEQA thresholds of significance.

The Project would generate emissions associated with typical activities associated with congregate care including mobile source emissions from worker commute trips, persons visiting residents of the Project Site, and residents' use of vehicles. Natural gas would also be directly consumed on-site from natural gas–powered stove tops and fireplaces as well as indirectly consumed to produce energy to power the Project. The infrequent application of paint, use of consumer products and landscaping equipment, and application of fertilizers on landscaped areas would also result in operational emissions of air pollutants.

Table 3-2 summarizes the projected operations-related emissions associated with the Project.

Table 3-2 Maximum Daily Operational Emissions of Criteria Pollutants and Precursors for the Project

Source	ROG (lb./day)	NO_X (lb./day)	PM_{10} (lb./day)	$PM_{2.5}$ (lb./day)
Mobile	1	4	2	1
Energy	<1	<1	<1	<1
Area	29	2	8	8
Total	**29**	**6**	**10**	**9**
SCAQMD Significance Criteria	55	55	150	55
Exceeds Thresholds?	No	No	No	No

Notes: ROG = reactive organic gases; NO_X = oxides of nitrogen; PM_{10} = respirable particulate matter; $PM_{2.5}$ = fine particulate matter lb./day = pounds per day;
SCAQMD = South Coast Air Quality Management District

Source: Modeling conducted by Ascent Environmental in November 2019 using CalEEMod v. 2016.3.2

As shown in Table 3-2, operational emissions of criteria pollutants and precursors would not exceed the applicable SCAQMD's CEQA thresholds of significance. Thus, construction- and operation-related emissions of ROG, NO_X, $PM_{2.5}$, and PM_{10} would be **less than significant**.

3.c. **Less-than-Significant Impact.** Implementation of the Project would not introduce any new long-term operational sources of TACs. Therefore, construction-related TACs will comprise the analysis of substantial pollutant concentrations.

In relation to air quality, sensitive receptors include infants and children, the elderly, people with illnesses, or others who are especially sensitive to the adverse health effects of air pollutants (discussed previously). Hospitals, schools, convalescent facilities, and residential housing are examples of land uses with populations who are sensitive to air

quality impacts. Existing sensitive receptors within the Project Site include residences to the north, south, east, and west and the ABC Child Care Center to the east of the Project Site.

Construction-related activities would result in temporary, intermittent emissions of diesel particulate matter (PM) from the exhaust of heavy-duty off-road diesel equipment used for construction of the Project. On-road, diesel-powered haul trucks traveling to and from the project site during construction to deliver materials and equipment would not operate at a single location for extended periods and therefore would not expose a single receptor to excessive diesel PM emissions. This analysis focuses primarily on heavy duty construction equipment used on-site that may affect nearby off-site land uses.

Particulate exhaust emissions from diesel-fueled engines (i.e., diesel PM) were identified as a TAC by CARB in 1998. The potential cancer risk from inhaling diesel PM outweighs the potential for all other diesel PM-related health impacts (i.e., noncancer chronic risk, short-term acute risk) and health impacts from other TACs (CARB 2015). Chronic and acute exposure to noncarcinogens is expressed as a hazard index, which is the ratio of expected exposure levels to an acceptable reference exposure level. As shown in Table 3-1 above, maximum daily exhaust emissions of PM_{10}, which is considered a surrogate for diesel PM, would be up to 20 lbs./day during construction.

The dose to which receptors are exposed is the primary factor used to determine health risk (i.e., potential exposure to TAC levels that exceed applicable standards). Dose is a function of the concentration of a substance in the environment and the duration of exposure to the substance. It is positively correlated with time, meaning that a longer exposure period would result in a higher exposure level for any exposed receptor. Thus, the risks estimated for an exposed individual are higher if the exposure occurs over a longer period. According to the Office of Environmental Health Hazard Assessment (OEHHA), HRAs, which determine the exposure of sensitive receptors to TACs, should be based on a 70- or 30-year exposure period; however, such assessments should be limited to the period/duration of activities associated with the project (OEHHA 2015:5-23, 5-24). For this reason, it is important to consider that the use of heavy-duty off-road diesel equipment would be limited to a 14-month construction period.

In addition, studies show that diesel PM is highly dispersive and that concentrations of diesel PM decline with distance from the source (e.g., 500 feet from a freeway, the concentration of diesel PM decreases by 70 percent) (CARB 2005:9).

Considering the highly dispersive properties of diesel PM, the relatively low mass of diesel PM emissions that would be generated during project construction, the relatively short period during which diesel PM-emitting construction activity would take place in the same location near the same receptors, it is anticipated construction-related TACs would not expose sensitive receptors to an incremental increase in cancer risk that exceeds 10 in one million or a hazard index of 1.0 or greater. This impact would be less than significant.

3.d. **Less Than Significant Impact**. Odors are typically associated with industrial activities involving the use of chemicals, solvents, petroleum products, and other strong-smelling elements used in manufacturing processes. Odors are also associated with such uses as sewage treatment facilities and landfills. Implementation of the Project would result in the future development of 107assisted living senior-care units. This use would not introduce any major odor-producing uses that would have the potential to affect a substantial number of people. It is expected refuse generated from future development of the Project would be temporarily stored in covered containers and would be removed at regular intervals in compliance with the City's solid waste regulations. Activities and materials associated with construction would be typical of construction projects of similar type and size. Any odors that may be generated during construction of future development of the Project would be localized and would not be sufficient to affect a substantial number of people or result in a nuisance as defined by SCAQMD Rule 402. Impacts with regard to odors would be less than significant.

References:

California Air Pollution Control Officers Association. 2016. CalEEMod 2016.3.2 Computer Program. Available: http://www.capcoa.org/caleemod/. Accessed November 13, 2019.

California Air Resources Board. 2005 (April). *Air Quality and Land Use Handbook: A Community Health Perspective*. Available: https://ww3.arb.ca.gov/ch/handbook.pdf. Accessed November 13, 2019.

———. 2015. User Manual for the Hotspots Analysis and Reporting Program Air Dispersion Modeling and Risk Assessment Tool Version 2. Last Revised: March 17, 2015. Available: https://ww3.arb.ca.gov/toxics/harp/docs2/harp2admrtuserguide.pdf. Accessed November 13, 2019.

———. 2019. Area Designations Maps – State/National Standards Homepage. Last updated October 24, 2019. Available: https://ww3.arb.ca.gov/desig/adm/adm.htm. Accessed November 12, 2019.

CAPCOA. *See* California Air Pollution Control Officers Association.

CARB. *See* California Air Resources Board.

Office of Environmental Health Hazard Assessment. 2015. Air Toxics Hot Spots Program Risk Assessment Guidelines. Available: https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf. Accessed November 13, 2019.

SCAQMD. *See* South Coast Air Quality Management District.

South Coast Air Quality Management District. 2017 (April). South Coast AQMD Air Quality Significance Thresholds. Available: http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2. Accessed November 12, 2019.

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

Comments:

4.a. **Less Than Significant with Mitigation Incorporated.** The biological assessment is contained in Appendix B, the MSHCP DBESP is contained in Appendix D, and the Project DBESP is contained in Appendix F. The study area is not located in any sensitive plant survey areas. A survey conducted by HELIX Environmental found habitat capable of supporting the following special-status species: Burrowing Owl (*Athene cunicularia*; BUOW) and Least Bell's Vireo (*Vireo bellii pusillus*; LBVI). BUOW focused surveys were conducted by HELIX between April and August 2018 and by PCR Services Corporation (PCR) between March and June 2015. No BUOWs were observed; therefore, the project is not anticipated to impact this species. A pre-construction survey is required 30 days prior to ground disturbance pursuant to the County of Riverside's survey protocol. LBVI focused surveys were conducted by HELIX between April and July 2018 and by PCR between April and July 2015. No LBVIs were observed; therefore, the project is not anticipated to impact this species. Therefore, impacts would be less than significant with the incorporation of mitigation measure **MM-BIO-1 and MM-BIO-2.**

MM-BIO-1: **Burrowing Owl:** In compliance with the MSHCP, a pre-construction survey shall be conducted on the study area within 30 days prior to ground disturbance to determine presence of BUOW. If the pre-construction survey is negative and BUOW is confirmed absent, then construction activities (i.e., earthwork, clearing, and grubbing) shall be allowed to commence and no avoidance or minimization measures would be required.

If BUOW is observed during the pre-construction survey, active burrows shall be avoided by the project in accordance with the California Department of Fish and Wildlife's (CDFW) ***Staff Report on Burrowing Owl Mitigation*** (2012) or CDFW's most recent guidelines. The Project Proponent shall immediately inform the Western Riverside County Regional Conservation Authority (RCA) of BUOW observations. A BUOW Protection and Relocation Plan (plan) shall be prepared by a qualified biologist, which must be sent for approval by RCA prior to initiating ground disturbance. The RCA will coordinate directly with CDFW as needed to ensure that the plan is consistent with the MSHCP and CDFW guidelines. The plan shall detail avoidance measures that shall be implemented during construction and passive or active relocation methodology. Relocation shall only occur outside of the nesting season (September 1 through January 31). The RCA may require translocation sites to be created within the MSHCP Conservation Area for the establishment of new colonies. If required, the translocation sites must take into consideration unoccupied habitat areas, presence of burrowing mammals, existing colonies, and effects to other MSHCP Covered Species in order to successfully create suitable habitat for BUOW. The translocation sites must be developed in consultation with RCA. If required, translocation sites would also be described in the agency-approved plan.

MM-BIO-2: **Nesting Birds:** Construction activities (i.e., earthwork, clearing, and grubbing) shall occur outside of the general bird nesting season for migratory birds, which is March 1 through August 31 for songbirds and January 15 to August 31 for raptors. If construction activities (i.e., earthwork, clearing, and grubbing) must occur during the general bird nesting season for migratory birds and raptors (January 15 and August 31), a qualified biologist shall be retained to perform a pre-construction survey of potential nesting habitat to confirm the absence of active nests belonging to migratory birds and raptors afforded protection under the MBTA and CFG Code. The pre-construction survey shall be performed no more than seven days prior to the commencement of construction activities. The results of the pre-construction survey shall be documented by the qualified biologist. If construction is inactive for more than seven days, an additional survey shall be conducted. If the qualified biologist determines that no active migratory bird or raptor nests occur, the activities shall be allowed to proceed without any further requirements. If the qualified biologist determines that an active migratory bird or raptor nest is present, no impacts within 300 feet (500 feet for raptors) of the active nest shall occur until the young have fledged the nest and the nest is confirmed to no longer be active, or as determined by the qualified biologist. The biological monitor may modify the buffer or propose other recommendations in order to minimize disturbance to nesting birds.

4.b. and c. **Less Than Significant with Mitigation Incorporated.** Riparian habitats are those habitats located along banks or rivers or streams. Sensitive natural communities are natural communities that are considered rare in the region by the U.S. Fish and Wildlife Service (USFWS), California Department of Fish and Wildlife (CDFW), or local regulatory agencies; that are known to provide habitat for sensitive animal or plant species; or are known to be significant wildlife corridors. Wetlands are defined under the federal Clean Water Act as land that is flooded or saturated by surface water or groundwater at a frequency and duration sufficient to support, and that normally does support, a prevalence of vegetation adapted to life in saturated soils. Wetlands include swamps, marshes, bogs, mudflats, and vernal pools. The Site contains what is considered a remnant of a mapped 1970 USGS blueline drainage course, and associated riparian vegetation, which is attributed to a piped tributary flow from developed areas and installed storm drains. A primary project design feature is avoidance and conservation of the onsite riparian vegetation to the maximum extent practicable. Project implementation would result in approximately 0.06 acre of permanent impacts to waters of the U.S. (WUS) under the jurisdiction of U.S. Army Corps of Engineers (USACE) and Regional Water Quality Control Board (RWQCB) and approximately 0.58 acre of permanent impacts and 0.23 acre of temporary impacts to California Department of Fish and Wildlife (CDFW) jurisdictional streambed and associated riparian vegetation (see Figure 6). The project would avoid approximately 0.90 acre of CDFW jurisdictional streambed and associated riparian vegetation. In accordance with MSHCP Section 6.1.4, the proposed Project has been designed so that no additional take of conserved habitat, including riparian/riverine areas, will be necessary for fuel modification purposes. Compensatory mitigation for permanent impacts will be proposed at a no less than a 3:1 ratio as follows: a ratio of 2:1 will be applied through mitigation credits at the Riverpark Mitigation Bank in the San Jacinto Watershed and a ratio of 1:1 will be applied through mitigation credits at the Skunk Hollow Mitigation Bank in the Santa Margarita Watershed. Compensatory mitigation for

permanent impacts to southern willow scrub and mule fat scrub streambed habitats will be proposed at a no less than a 3:1 ratio through a combination of mitigation credits as follows: Riverpark Mitigation Bank through the purchase of streambed re-establishment credits at a 1:1 ratio; Riverpark Mitigation Bank through the purchase of streambed rehabilitation credits at a 1:1 ratio; and Skunk Hollow Mitigation Bank through the purchase of preservation credits at a 1:1 ratio. The 1:1 ratio of streambed reestablishment credits are intended to compensate for permanent riparian/riverine impacts, while a 1:1 ratio for rehabilitation is intended to compensate for the temporal loss of riparian habitat. The 1:1 ratio of streambed preservation credits within the Skunk Hollow Mitigation Bank are intended to compensate for the re-establishment and rehabilitation mitigation occurring outside of the watershed at the River Park Mitigation Bank. This provides for a total of 3:1 mitigation to impacts ratio to be provided for the project. As such, mitigation through the Riverpark and Skunk Hollow Mitigation Banks for impacts to riparian/riverine areas will be biologically equivalent or superior to resources being impacted by the proposed project. These mitigation options facilitate mitigation within a much broader regional conservation context with resources that will be of an equal or greater conservation value to the impacted southern willow scrub and mule fat scrub streambed habitats. Temporarily impacted areas will be returned to pre-project conditions once project construction has been completed and revegetated. Impacts to riparian habitat would be less than significant with the incorporation of mitigation measure MM-BIO-3 and MM-BIO-4.

MM-BIO-3: Jurisdictional Resources: Prior to issuance of a grading permit for impacts to jurisdictional resources, the Project Proponent shall obtain regulatory permits from USACE, RWQCB, and CDFW (collectively, the "Resource Agencies"). Temporary impacts to jurisdictional resources shall be returned to pre-project contours once the project has been completed. Compensatory mitigation for permanent impacts to jurisdiction shall be required as part of subsequent permitting requirements. Permanent impacts to jurisdictional resources shall be mitigated through on-site or off-site enhancement, which may include a one-time mitigation fee to an offsite Mitigation Land Bank, restoration, and/or creation of jurisdictional streambed at ratio of no less than 3:1. The following minimization measures will be implemented during construction:

- Use of standard Best Management Practices (BMPs) to minimize the impacts during construction.
- Storage of equipment in upland areas, outside of drainage areas except as required by project design (restoration, trash removal, etc.)
- Source control and treatment control BMPs will be implemented to minimize the potential contaminants that are generated during and after construction. Water quality BMPs will be implemented throughout the project to capture and treat potential contaminants.
- To avoid attracting predators during construction, the project shall be kept clean of debris to the extent possible. All food-related trash items shall be enclosed in sealed containers and regularly removed from site.
- Employees shall strictly limit their activities, vehicles, equipment and construction material to the proposed project footprint, staging areas, and designated routes of travel.
- Fencing construction limits with orange snow screen and maintenance of exclusion fencing until the completion of construction activities.

The project applicant shall mitigate all permanent impacts to CDFW and USACE jurisdictional resources at no less than a 3:1 ratio, specifically with a ratio of 2:1 at the Riverpark Mitigation Bank in the San Jacinto Watershed or a ratio of 1:1 at the Skunk Hollow Mitigation Bank in the Santa Margarita Watershed. All impacts to southern willow scrub and mule fat scrub streambed habitats shall be mitigation at no less than a 3:1 ratio through a combination of mitigation credits including the following: Riverpark Mitigation Bank through the purchase of streambed re-establishment credits at a 1:1 ratio; Riverpark Mitigation Bank through the purchase of streambed rehabilitation credits at a 1:1 ratio; and Skunk Hollow Mitigation Bank through the purchase of preservation credits at a 1:1 ratio.

MM-BIO-4: **MSHCP Project Runoff Treatment and Retention:** In accordance with MSHCP Section 6.1.4, all project runoff shall be treated prior to exiting the site to reduce toxins. The project shall include detention basins within the project footprint so that there is no increase in flow from the project site. Manufactured slopes associated with the project shall not extend into the MSHCP conservation area.

4.d. **Less Than Significant with Mitigation Incorporated.** The study area is not part of a regional corridor and does not serve as a nursery site. The study area is not identified by the MSHCP as being part of a local or regional corridor or linkage. Therefore, the project is not anticipated to significantly impact wildlife movement through the area. The study area supports suitable habitat for nesting birds. Therefore, a nesting bird survey will be required prior to construction in order to avoid impacts to nesting bird species. Impacts to migratory species would be less than significant with the incorporation of mitigation measure **MM-BIO-5 and MM-BIO-6.**

MM-BIO-5: **MSHCP Landscaping Restrictions:** In accordance with MSHCP Section 6.1.4, no species listed in Table 6-2, ***Plants that Should Be Avoided Adjacent to the MSHCP Conservation Area***, shall be used in the project landscape plans and only native species will be planted adjacent to open space areas (including hydroseed mix used for interim erosion control).

MM-BIO-6: **Habitat Conservation Plan Fees:** The project applicant is subject to the MSHCP LDMF and the Stephens' Kangaroo Rat HCP Fee, which shall be paid prior to issuance of any grading permit.

4.e. **No Impact.** Chapter 8.48 of the City of Temecula's Municipal Code protects heritage trees, which include Oak, California Bay Laurel, California Black Walnut, California Holly, and California Sycamore trees as well as other trees of special significance to the community. There is one potential heritage tree (oak) located onsite in the open space area adjacent to Via La Vida, but it does not meet the minimum trunk diameter requirement and is not impacted by the proposed project.

4.f. **No Impact.** The project site is located within the Southwest Area Plan area of MSHCP and is not located within a Criteria Cell, Core, or Linkage identified by the MSHCP. Furthermore, the project site is not located within a Narrow Endemic Plan Species Survey Area, Criteria Area Species Survey Area, Amphibian Survey Area, or Mammal Survey Area. As a result, the Western Riverside County Regional Conservation Authority (RCA) is not required to review the proposed project. However, the U.S. Fish and Wildlife Service and the California Department of Fish and Wildlife Service are required to review and approve the DBESP. DBESP approval is required to be completed prior to City of Temecula Planning Commission public hearings.

References:

City of Temecula. Chapter 8.48 Heritage Tree Ordinance. Available: http://www.qcode.us/codes/temecula/view.php?topic=8-8_48-i-8_48_150. Accessed December 12, 2019.

HELIX. December 2019. Memorandum: Biological Constraints for the Solana Senior Assisted Living Center Project.

———. March 2020. Solana Senior Assisted Living Center Project Determination of Biologically Equivalent or Superior Preservation.

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

Comments:

5.a. **No Impact**. A historical resource is defined in Section 15064.5(a)(3) of the CEQA Guidelines as any object, building, structure, site, area, place, record, or manuscript determined to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California. Historical resources are further defined as being associated with significant events, important persons, or distinctive characteristics of a type, period or method of construction; representing the work of an important creative individual; possessing high artistic values; or yielding information important in prehistory or history. Resources listed in or determined eligible for the California Register of Historical Resources, included in a local register, or identified as significant in a historic resource survey are also considered historical resources under CEQA.

The Project Site is currently vacant and undeveloped grassland with a mature riparian corridor surrounded by existing residential and commercial development. According to Figure OS-2, of the City of Temecula General Plan, the Project Site is not located near a historical structure or historic Site. Project development would not cause a substantial adverse change in the significance of a historical resource.

5.b. **Less Than Significant With Mitigation Incorporated**. Section 15064.5(a)(3)(D) of the State CEQA Guidelines generally defines archaeological resources as any resource that "has yielded, or may be likely to yield, information important in prehistory or history." Archaeological resources are features, such as tools, utensils, carvings, fabric, building foundations, etc., that document evidence of past human endeavors and that may be historically or culturally important to a significant earlier community. The Project Site is currently vacant and undeveloped grassland with a mature riparian corridor surrounded by existing residential and commercial development. Implementation of the Project would result in the development of an approximately 48,380-sqaure foot assisted living and memory care facility with 107 residential suites. Project construction would require grading and excavation in areas which could contain previously undiscovered cultural resources. Therefore, impacts to archaeological resources would be potentially significant, and implementation of mitigation measure **MM-CUL-1** would be required.

MM-CUL-1: Prior to issuance of a grading permit the Project Applicant shall retain a qualified archaeologist to monitor all ground disturbing activities in an effort to identify any unknown archaeological resources. The Project Archaeologist and the Pechanga Tribal Monitor shall manage and oversee monitoring for all initial ground disturbing activities and excavation of each portion of the Project site including clearing, grubbing, tree removals, mass or rough grading, trenching, stockpiling of materials, rock crushing, structure demolition and etc. The Project Archaeologist and the Tribal Monitor(s), shall have the authority to temporarily divert, redirect or halt the ground disturbance activities to allow identification, evaluation, and potential recovery of cultural resources in coordination with any required special interest or Tribal Monitors.

The Project Applicant shall submit a fully executed copy of the contract to the Community Development Department to ensure compliance with this condition of approval. Upon verification, the Community Development Department shall clear this condition.

In addition, the Project Archaeologist, in consultation with the Pechanga Tribe, the contractor, and the City, shall develop a Cultural Resources Management Plan (CRMP) in consultation pursuant to the definition in AB 52 to address the details, timing and responsibility of all archaeological and cultural activities that will occur on the project site. Details in the Plan shall include:

a. Project grading and development scheduling;

b. The Project Archeologist and the Pechanga Tribe shall attend the pre-grading meeting with the City, the construction manager, and any contractors and will conduct a mandatory Cultural Resources Worker Sensitivity Training to those in attendance. The Training will include a brief review of the cultural sensitivity of the Project and the surrounding area; what resources could potentially be identified during earthmoving activities; the requirements of the monitoring program; the protocols that apply in the event inadvertent discoveries of cultural resources are identified, including who to contact and appropriate avoidance measures until the find(s) can be properly evaluated; and any other appropriate protocols. All new construction personnel that will conduct earthwork or grading activities that begin work on the Project following the initial Training must take the Cultural Sensitivity Training prior to beginning work and the Project archaeologist and Consulting Tribe(s) shall make themselves available to provide the training on an as-needed basis;

c. The protocols and stipulations that the contractor, City, Pechanga Tribe, and Project Archaeologist will follow in the event of inadvertent cultural resources discoveries, including any newly discovered cultural resource deposits that shall be subject to a cultural resources evaluation.

MM – CUL-2 Tribal Monitor(s) from the Pechanga Band of Luiseño Indians shall be required on-site during all ground-disturbing activities, including grading, stockpiling of materials, engineered fill, rock crushing, etc. The Project Applicant shall retain a qualified Tribal Monitor(s) from the Pechanga Band of Luiseño Indians. Prior to issuance of a grading permit, the Project Applicant shall submit a copy of a signed contract between the above-mentioned Tribe and the Project Applicant for the monitoring of the Project to the City of Temecula Planning Department. The Tribal Monitor(s) shall have the authority to temporarily divert, redirect or halt the ground-disturbance activities to allow recovery of cultural resources, in coordination with the Project Archaeologist.

MM – CUL-3 If during ground disturbance activities, unique cultural resources are discovered that were not assessed by the archaeological report(s) and/or environmental assessment conducted prior to Project approval, the following procedures shall be followed. Unique cultural resources are defined, for this condition only, as being multiple artifacts in close association with each other, but may include fewer artifacts if the area of the find is determined to be of significance due to its sacred or cultural importance as determined in consultation with the Native American Tribe(s).

i. All ground disturbance activities within 100 feet of the discovered cultural resources shall be halted until a meeting is convened between the Project Applicant, the Project Archaeologist, the Tribal Representative(s) and the Planning Director to discuss the significance of the find.

ii. At the meeting, the significance of the discoveries shall be discussed and after consultation with the Tribal Representative(s) and the Project Archaeologist, a decision shall be made, with the concurrence of the Planning Director, as to the appropriate mitigation (documentation, recovery, avoidance, etc.) for the cultural resources.

iii. Further ground disturbance shall not resume within the area of the discovery until an agreement has been reached by all parties as to the appropriate mitigation. Work shall be allowed to continue outside of the buffer area and will be monitored by additional Tribal Monitors if needed.

iv. Treatment and avoidance of the newly discovered resources shall be consistent with the Cultural Resources Management Plan and Monitoring Agreements entered into with the appropriate tribes. This may include avoidance of the cultural resources through project design, in-place preservation of cultural resources located in native soils and/or re-burial on the Project property so they are not subject to further disturbance in perpetuity as identified in Non-Disclosure of Reburial Condition.

v. If the find is determined to be significant and avoidance of the site has not been achieved, a Phase III data recovery plan shall be prepared by the Project Archeologist, in consultation with the Tribe, and shall be submitted to the City for their review and approval prior to implementation of the said plan.

vi. Pursuant to Calif. Pub. Res. Code § 21083.2(b) avoidance is the preferred method of preservation for archaeological resources and cultural resources. If the Project Applicant and the Tribe cannot agree on the significance or the mitigation for the archaeological or cultural resources, these issues will be presented to the City Planning Director for decision. The City Planning Director shall make the determination based on the provisions of the California Environmental Quality Act with respect to archaeological resources, recommendations of the project archeologist and shall take into account the cultural and religious principles and practices of the Tribe. Notwithstanding any other rights available under the law, the decision of the City Community Development Director shall be appealable to the City Planning Commission and/or City Council."

Evidence of compliance with this mitigation measure, if a significant archaeological resource is found, shall be provided to City of Temecula upon the completion of a treatment plan and final report detailing the significance and treatment finding.

MM-CUL-4 In the event that Native American cultural resources are discovered during the course of grading (inadvertent discoveries), the following procedures shall be carried out for final disposition of the discoveries:

a) One or more of the following treatments, in order of preference, shall be employed with the tribes. Evidence of such shall be provided to the City of Temecula Planning Department:

ii. Preservation-In-Place of the cultural resources, if feasible. Preservation in place means avoiding the resources, leaving them in the place where they were found with no development affecting the integrity of the resources.

iii. Reburial of the resources on the Project property. The measures for reburial shall include, at least, the following: Measures and provisions to protect the future reburial area from any future impacts in perpetuity. Reburial shall not occur until all legally required cataloging and basic recordation have been completed, with an exception that sacred items, burial goods, and Native American human remains are excluded.

Any reburial process shall be culturally appropriate. Listing of contents and location of the reburial shall be included in the confidential Phase IV report. The Phase IV Report shall be filed with the City under a confidential cover and not subject to Public Records Request.

iv. If preservation in place or reburial is not feasible then the resources shall be curated in a culturally appropriate manner at a Riverside County curation facility that meets State Resources Department Office of Historic Preservation Guidelines for the Curation of Archaeological Resources ensuring access and use pursuant to the Guidelines. The collection and associated records shall be transferred, including title, and are to be accompanied by payment of the fees necessary for permanent curation. Evidence of curation in the form of a letter from the curation facility stating that subject archaeological materials have been received and that all fees have been paid, shall be provided by the landowner to the City. There shall be no destructive or invasive testing on sacred items, burial goods, and Native American human remains. Results concerning finds of any inadvertent discoveries shall be included in the Phase IV monitoring report.

Evidence of compliance with this mitigation measure, if a significant archaeological resource is found, shall be provided to City of Temecula upon the completion of a treatment plan and final report detailing the significance and treatment finding.

MM – CUL-5 Prior to final inspection, the Project Applicant shall prompt the Project Archeologist to submit two (2) copies of the Phase III Data Recovery report (if required for the Project) and the Phase IV Cultural Resources Monitoring Report that complies with the Community Development Department's requirements for such reports. The Phase IV report shall include evidence of the required cultural/historical sensitivity training for the construction staff held during the pre-grade meeting. The Planning Department shall review the reports to determine adequate mitigation compliance. Provided the reports are adequate, the Planning Department shall clear this condition. Once the report(s) are determined to be adequate, two (2) copies shall be submitted to the Eastern Information Center (EIC) at the University of California Riverside (UCR) and one (1) copy shall be submitted to the Pechanga Tribe's Cultural Resources Department.

5.c. Less Than Significant With Mitigation Incorporated. The Project Site is located in an urbanized area of the City. Project construction would require ground disturbing activities included grading and excavation in a previously undeveloped area. Although no known human remains exist onsite there is a potential that ground disturbing activates could disturb previously unknown human remains. Therefore, impacts to human remains would be potentially significant, and implementation of mitigation measure MM-CUL-2 would be required.

MM-CUL-6: In the event that human remains are unearthed during ground-disturbing activities, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the Riverside County Coroner has made the necessary findings as to origin. Further, pursuant to Public Resource Code Section 5097.98(b) remains shall be left in place and free from disturbance until a final decision as to the treatment and disposition has been made. The project applicant shall comply with provisions of Public Resources Code Section 5097.98 and Health and Safety Code Section 7050.5. The Riverside County Coroner shall be notified immediately upon discovery of human remains. If the remains are determined to be human remains, the Native American Heritage Commission (NAHC) shall be notified to as per the Health and Safety Code Section 7050.5, subdivision (c), and Public Resources Code 5097.98. In accordance with Public Resources Code Section 5097.98 the NAHC would determine and notify the Most Likely Descendant. The most likely descendant shall then make recommendations and engage in consultation concerning the treatment of the remains as provided in Public Resources Code Section 5097.98. Evidence of compliance with this mitigation measure, if human remains are found, shall be provided to the City of Temecula upon the completion of a treatment plan and final report detailing the significance and treatment finding.

References:

City of Temecula. 1993. *Temecula General Plan*. Updated 2005, Open Space Conservation Element, Figure OS-2, Historic Structures and Sites, page OS-16.

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

6.a. **Less-than-Significant Impact**. Energy resources, such as electrical power, would be consumed to construct and operate the Project. The demand would be largely supplied from existing electrical services in the vicinity of the Project Site. Levels of construction- and operation-related energy consumption by the project are measured in megawatt-hours (MWh) of electricity, million Btu (MMBtu) of natural gas, and gallons of gasoline and diesel fuel. Energy Calculations are included in Appendix C.

Energy consumption estimates were calculated using the California Emissions Estimator Model (CalEEMod) version 2016.3.2 computer program (CAPCOA 2016). Construction fuel consumption was calculated for CalEEMod default heavy-duty construction equipment based on anticipated hourly daily usage, days used, and worker commute trip VMT. Yearly operational MWh of electricity and MMBtu of natural gas consumption were derived from CalEEMod defaults for the modeled land use. Operational diesel and gasoline consumption was calculated using CARB's 2017 EMissions FACtor model and annual project-generated VMT (CARB 2017). Where project-specific information was not known, CalEEMod default values based on the project's location were used. Table 6-1 summarizes the levels of energy consumption for each phase of construction and Table 6-2 summarizes the levels of energy consumption for the first year of operation during the buildout year of 2021. Table 6-3 summarizes the gasoline and diesel consumption estimated for the project in 2021. See Appendix C for more calculations and assumptions.

Table 6-1 Construction Energy Consumption

Year	Diesel (Gallons)	Gasoline (Gallons)
2020	9,661	2,549
2021	17,414	5,220
Total	**27,075**	**7,768**

Notes: Gasoline gallons include on-road gallons from worker trips. Diesel gallons include off-road equipment and on-road gallons from worker and vendor trips.

Source: Calculations by Ascent Environmental in 2019. See Appendix C for more calculations and assumptions.

Table 6-2 Operational Energy Consumption

Land Use/Energy Type	Energy Consumption	Units
Congregate Care		
Electricity	434	MWh/year
Natural Gas	1,065	MMBtu/year

Notes: MWh/year = megawatt-hours per year; MMBtu/year = million British thermal units per year.

Source: Calculations by Ascent Environmental in 2019. See Appendix C for more calculations and assumptions.

Table 6-3 Gasoline and Diesel Consumption in 2021

Vehicle Category	Gasoline (gal/year)	Diesel (gal/year)
Passenger Vehicles	18,218	105
Trucks	15,937	5,831
Buses	431	151
Other Vehicles	77	15
Total (All Vehicle Types)	**34,664**	**6,102**

Notes: gal/year = gallons per year.

Source: Calculations by Ascent Environmental in 2019. See Appendix C for more calculations and assumptions.

The Project would be required to comply with the City of Temecula's 2010 Sustainability Plan as well as the most recent iteration of 2019 Part 6 of Title 24 of the California Building Code (California Energy Code) which, through the application of on-site photovoltaic solar panels would reduce energy consumption by 53 percent in the residential sector (CEC 2019).

A project that could introduce substantial energy demand such that additional energy-related infrastructure and facilities (e.g., power plant) would need to be built and would result in physical environmental effects would be considered a significant energy impact. Energy consumption under the Project would be consumed during the construction and operational phases of Project implementation. The increased energy demand would not be substantial such that a new power plant would need to be constructed. Southern California Edison's existing power supply and associated infrastructure would be capable of satisfying new energy demand generated by the Project. For this reason, energy consumption under the Project would not be "wasteful, inefficient, or unnecessary." This would be a less-than-significant impact.

6.b. **Less-than-Significant Impact.** Implementation of the Project would not conflict with or obstruct a state or local plan for increasing renewable energy or energy efficiency. The Project would result in the development of a new land use that would induce new demand for electricity and natural gas; however, this land use would be required to comply with the energy efficiency requirements of the 2019 California Energy Code. Additionally, the Project has committed to comply with the Tier 1 Standard of the California Green Building Standards Code (CalGreen Code), install real-time energy monitors to track energy use, and minimize construction idling time to 5 minutes or less. These measures would enhance the energy efficiency of the Project in addition to regulatory compliance with the California Energy Code. Therefore, the Project would not conflict with a state or regional plan related to the increased use of renewable energy or improved energy efficiency. This would be a less-than-significant impact.

References:

California Energy Commission. 2019. 2019 Building Energy Efficiency Standards Frequently Asked Questions. Available: https://ww2.energy.ca.gov/title24/2019standards/documents/2018_Title_24_2019_Building_Standards_FAQ.pdf. Accessed November 18, 2019.

CEC. *See* California Energy Commission.

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

Comments:

7.a.i. **Less Than Significant Impact.** The Project Site is located in the seismically active region of Southern California. Ground shaking occurs as a result of a numerous faults located within the region. Faults originate over long periods of time when the earth's crust is fractured as a result of uneven rock movements along a line. A fault trace is the line on the earth's surfacing which defines a fault. Due to the location of the Project, fault rupture and consequently ground shaking activities are expected to occur over the lifetime of the Project. The California Geological Survey identifies and defines active earthquake fault zones to assist with planning, zoning, and creation of building codes so as to reduce seismic risks.

According to Figure PS-1 of the City of Temecula General Plan, the City of Temecula contains one active fault, the Elsinore located to the west of the Project Site. Faults nearby the City include the San Andreas, San Jacinto, San Gabriel, Newport-Inglewood, Sierra Madre-Santa Susana-Cucamonga, Rose Canyon, Coronado Banks, San Diego Trough, and San Clemente Island faults. The Project Site does not contain any known faults and is not located within an Alquist-Priolo Earthquake Fault Zone. Therefore, Project development would result in a less than significant impact related to the rupture of a known earthquake fault.

7.a.ii. **Less Than Significant Impact.** As discussed under Response 7.a.i., the City contains one active fault, the Elsinore which runs across the City. Other nearby faults to the City include the San Andreas, San Jacinto, San Gabriel, Newport-Inglewood, Sierra Madre-Santa Susana-Cucamonga, Rose Canyon, Coronado Banks, San Diego Trough, and San Clemente Island faults. Thus, the Project Site would be subject to shaking during earthquake events. Due to the Project's location and proximity to several fault lines, it is likely that ground shaking events would occur during the lifetime of

the Project. Construction and building design of the Project is subject to the City's Building Code which incorporates the 2019 California Building Code (CBC) standards. Incorporation of City's Building Code and the 2019 CBC includes seismic design standards to reduce seismically induced risks. Therefore, development of the Project would result in a less than significant impact related to strong seismic ground shaking.

7.a.iii. **Less Than Significant Impact.** Liquefaction is a phenomenon that occurs when a high-intensity seismic event causes loose, saturated, granular soils to act as a fluid. Factors that influence liquefaction potential include depth of groundwater, composition of soils, and intensity and duration of ground shaking. According to Figure PS-1 of the City of Temecula General Plan, the Project Site is not located within a liquefaction hazard zone. Although liquefaction event is unlikely within the Project Site, adherence to the City Building Codes and 2019 CBC would reduce the likelihood of impacts from seismic-related ground failure, which include liquefaction. Therefore, development of the Project would result in a less than significant impact related to liquefaction.

7.a.iv. **No Impact**. The Project Site is relatively flat and is currently vacant. There are no slopes on or near the Project Site that could pose a landslide hazard. The Project would have no impact and analysis of this issue in the Initial Study is not necessary.

7.b. **Less Than Significant Impact**. Soil erosion refers to the process by which soil or earth material is loosened or dissolved and removed from its original location. Erosion can occur by varying processes and may occur in the Project Site where bare soil is exposed to wind or moving water (both rainfall and surface runoff). The processes of erosion are generally a function of material type, terrain steepness, rainfall or irrigation levels, surface drainage conditions, and general land uses.

Project-related construction activities that include ground surface disruption such as excavation, grading, and trenching increase the potential for erosion to occur. Implementation of Best Management Practices (BMP) and applicable regulations during ground disturbing activities would minimize potential erosion activities. Construction activities would comply with applicable City standard erosion control practices required pursuant to the 2016 CBC and the requirements of the National Pollutant Discharge Elimination System (NPDES) General Construction Permit issued by the SDRWQCB. For example, daily water in compliance with SCAQMD Rule 403 (Fugitive Dust) would stabilize soil and prevent wind erosion events. Standard erosion control measures during ground-disturbing activities would prevent water erosion activities. Additionally, as discussed in Section 10, Hydrology and Water Quality, development of the Project would be subject to all existing regulations associated with the protection of water quality. Furthermore, the Project would prepare a Stormwater Pollution Prevention Plan (SWPPP) which incorporates a number of BMPs to control erosion. Project design is also consistent with the Riverside County LID Manual and includes features to reduce offsite runoff, such as vegetation and landscaped areas. Therefore, through adherence with applicable rules and regulations and implementation of BMPs the Project would result in a less than significant impact related to erosion and topsoil.

7.c. **Less Than Significant Impact**. As previously discussed under Responses 7.a.iii and 7.a.iv above, the potential for liquefaction and landslides to occur on the Project Site is considered low. Subsidence is the sudden collapse of the ground's surface that occurs as a result of a subsurface gap or void. Subsidence is typically caused by withdrawal of groundwater or oil resources or wells beneath a surface. The Project Site contains no known oil wells and therefore subsidence is not expected to occur. In addition, incorporation of the 2019 CBC would reduce impacts from on- or off-site landslide, lateral spreading, subsidence, or collapse. Therefore, development of the Project would result in a less than significant impact related to stability hazards.

7.d. **Less Than Significant Impact**. Expansive soils are typically associated with fine-grained clayey soils that have the potential to shrink and swell with repeated cycles of wetting and drying. Although not anticipated, expansive soils, if encountered within the Project Site, would be removed and/or replaced as part of standard construction practices pursuant to the City and/or 2019 CBC building requirements. Therefore, development of the Project would result in less than significant impacts associated with expansive soils and substantial risks to life or property would not occur.

7.e. **No Impact**. Septic tanks or other similar alternative wastewater disposal systems are not proposed under the project. No impact would occur.

7.f. **Less Than Significant With Mitigation Incorporated**. The Project Site is currently vacant and undeveloped grassland with mature trees and a riparian corridor. Project development would not directly or indirectly destroy a unique geologic feature, but construction would require grading and excavation for the building foundation in areas which could contain previously undiscovered paleontological resources. Therefore, impacts to paleontological resources would be potentially significant, and implementation of mitigation measure **MM-GEO-1** would be required.

MM-GEO-1: In the event that paleontological resources are unearthed during ground-disturbing activities, the project contractor shall halt or redirect ground-disturbing activities away from the vicinity of the find so that the find can be evaluated. The project applicant shall retain a qualified paleontologist to determine whether or not the find is significant. If the find is determined to be potentially significant, the paleontologist, shall develop a treatment plan, in consultation with the Riverside County Paleontologist. Construction activities shall be redirected to other work areas until the treatment plan has been implemented or the qualified paleontologist determines that work can resume in the vicinity of the find.

References:

City of Temecula. 1993. *Temecula General Plan*. Updated 2005, Public Safety Element, Figure PS-1, Seismic Hazards, page PS-7.

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

THRESHOLDS OF SIGNIFICANCE

The Project site is located in the western portion of Riverside County, which is located in the SCAB. SCAQMD serves as the air district that regulates emissions of greenhouse gases (GHGs) within the SCAB.

In 2008, SCAQMD released draft guidance that recommended construction GHG emissions be amortized over a project's 30-year lifetime in order to include these emissions as part of a project's annualized lifetime total emissions. This enhances the role of mitigation measures, if required, to address construction GHG emissions as part of the operational GHG reduction strategies. In accordance with this draft methodology, the estimated construction GHG emissions have been amortized over a 30-year period and are included in the annualized operational GHG emissions, discussed later in this section (SCAQMD 2008). It should be noted that the GHG emissions shown in Table 8-1 are based on construction equipment operating continuously throughout the workday. In reality, construction equipment tends to operate periodically or cyclically throughout the workday. Therefore, the GHG emissions shown reflect a conservative estimate. A listing of the construction equipment by phase, construction schedule, emission factors, and calculation parameters used in this analysis is included within the emissions calculation worksheets that are provided in Appendix A.

Also, in 2008, SCAQMD's Governing Board adopted the staff proposal for an interim GHG significance threshold of 10,000 $MTCO_2e$/year for stationary sources. The proposed Project is comprised of a residential land use and would not be subject to such a threshold. SCAQMD is in the process of developing a new CEQA guidance document to replace the existing CEQA Air Quality Handbook adopted in 1993. In 2009, SCAQMD proposed a mass emissions GHG threshold that could be applied to project-level CEQA evaluation. Based on a review of 711 projects within SCAQMD's jurisdiction, SCAQMD found that stationary sources comprised 90 percent of total GHG emissions. In the wake of this finding, SCAQMD recommended the use of a 3,000 $MTCO_2e$/year mass emissions threshold to evaluate global climate change impacts during project-level environmental review for combined land use types.

Guidance provided by SCAQMD indicates that a project would result in a potentially significant climate change impact if a residential project would (SCAQMD 2009):

- generate construction- and operational-related GHG emissions in exceedance of 3,000 $MTCO_2e$ per year.

8.a. **Less-than-Significant Impact.** Construction and operation of the Project would increase GHG emissions which have the potential to cumulatively result in a significant impact on the environment. Construction-related activities that would generate GHG emissions include operation of heavy-duty equipment and work commute vehicle trips to and from the Project site. Operation of the Project would result in GHG emissions from vehicle trips accessing the Project site (mobile sector), electricity and natural gas combustion (energy sector), operation of landscaping equipment (area sector), treatment of water and wastewater (water sector), and decomposition of solid wastes at landfills (solid waste sector). Emissions from these sectors and from construction-related activities were modeled using CalEEMod Version 2016.3.2 (Appendix C). The results of the GHG emissions calculations are presented in Table 8-1.

Table 8-1 Annual Construction and Operational Emissions of Greenhouse Gases for the Project (2022)

Source	$MTCO_2e$/year
Mobile	420
Energy	214
Area	35
Water and Wastewater	48
Solid Waste	52
Construction[1]	17
Total	**787**
SCAQMD Significance Criteria	3,000
Exceeds Threshold?	No

Notes: $MTCO_2e$/year = metric tons of carbon dioxide equivalent per year, SCAQMD = South Coast Air Quality Management District

[1] Total construction emissions during the Project's 14-month construction period were amortized over a 30-year period consistent with guidance provided by SCAQMD.

Source: Modeling conducted by Ascent Environmental in November 2019 using CalEEMod v. 2016.3.2

As shown above in Table 8-1, the project would generate 780 $MTCO_2e$/year in 2021. This level of emissions would be less than SCAQMD's recommended mass emissions threshold of 3,000 $MTCO_2e$/year for residential land use projects. Notably, this level of GHG emissions is also well below other mass emissions thresholds that have been adopted or recommended by other air districts in California. For instance, the Placer County Air Pollution Control District recommends an 1,100 $MTCO_2e$/year threshold be applied during project-level CEQA evaluation in consideration of long-term, statewide GHG reduction targets (i.e., achieving a 40 percent reduction in statewide GHG emissions by 2030 as mandated by Senate Bill 32).

The Sacramento Metropolitan Air Quality Management District previously recommended the 1,100 $MTCO_2e$/year threshold; however, this threshold was developed in consideration of the state's short-term GHG reduction target (i.e., matching 1990 levels of statewide GHG emissions by 2020 as mandated by Assembly Bill 32). Nonetheless, the Project would become operational in the end of 2021 with a first full year of operation in 2022. Based on the 2030 target, the 1,100 $MTCO_2e$/year threshold could be interpolated to be 660 $MTCO_2$/year by 2030, with yearly reductions of 6 percent throughout the decade. For a project that becomes fully operational by 2022, an interpolated threshold of 968 $MTCO_2e$/year could be used. As shown in Table 8-1, GHG emissions associated with operation of the Project would be less than this interpolated threshold as well as SCAQMD's 3,000 $MTCO_2e$/year threshold.

Moreover, as listed on Page 2 of this IS/MND, the Project has committed to several on-site GHG reduction strategies including compliance with the Tier 1 Standards of the CalGreen Code, installation of energy-monitors, planting of trees, use of highly reflective pavement, installation of bicycle parking, diversion of construction waste, installation of water meters and water efficient landscaping, and minimizing construction idling to 5 minute or less. The GHG reductions achieved through several of these measures are not represented in the estimate provided in Table 8-1. Therefore, the estimated 787 $MTCO_2e$/year in 2022 is a conservative value.

For the reason stated above, construction and operation of the Project would not result in a significant climate change impact. This impact would be less than significant.

8.b. **Less-than-Significant Impact.** The GHG emissions associated with construction and operation of the Project would be 787 $MTCO_2e$/year, as shown in Table 8-1. The Project would result in a significant impact if it would generate GHG emissions, either directly or indirectly, that may conflict with applicable regulatory plans and policies to reduce GHG emissions, as discussed in CARB's 2017 California Climate Change Scoping Plan (2017 Scoping Plan), Southern California Association of Government's (SCAG's) Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), and the City of Temecula's Sustainability Plan.

2017 Scoping Plan

California has adopted multiple statewide GHG reduction mandates, regulations, policies, and plans to reduce the state's contribution of GHG emissions to minimize the adverse impacts of global, anthropogenic climate change. Because no one project is solely responsible for global climate change, GHG impacts are inherently cumulative impacts. The Project would be consistent with the state's strategies to reduce GHG emissions that are presented in the 2017 Scoping Plan. The 2017 Scoping Plan relies on a broad array of GHG reduction actions, which include direct regulations, market-based compliance mechanisms such as the state's Cap-and-Trade Program, incentives, voluntary actions, and local initiatives. As listed on Page 2 of this IS/MND, the Project would incorporate on-site measures to reduce energy and water consumption, VMT, and wastewater and solid waste generation. The Project has also committed to achieving the Tier 1 Standards of the CalGreen Code which would further reduce GHG emissions through additional design features.

The Project Site is located within mixed commercial and residential development within the City of Temecula and is considered infill development. The Project Site is 0.75-miles from a transfer site within Route 23 of the Riverside Transit Agency (RTA), which provides transit service to the Temecula Walmart, Pechanga Resort, Temecula Stage Stop on 6th and Front Street, the Temecula Library, the Margarita Road and Rancho California Road intersection, and the County Center. The Project's location, in addition to the inclusion of on-site bicycle infrastructure would result in reduced VMT through improved availability of other modes of transportation as compared to a project of similar size and land uses at a more remote location. The 2017 Scoping Plan indicates that statewide GHG emission reductions will need to be achieved through local planning efforts that "[p]romote vibrant communities and landscapes through better planning efforts to curb vehicle-miles-traveled and increase walking, biking and transit" (CARB 2017). Additionally, the Project would be a senior care facility, which, as compared to residential land use types, would not generate the same levels of VMT and automobile trips because senior residents would likely not drive long distances or, under certain circumstances, would not have access to a vehicle. Due to the Project's location and commitment to offering bicycle facilities that would incentivize the use of cycling, the Project would not conflict with local planning efforts identified in the 2017 Scoping Plan.

Furthermore, in addition to the Project's consistency with applicable GHG reduction strategies, the Project would not conflict with the future anticipated statewide GHG reductions goals. CARB has outlined a number of potential strategies for achieving the 2030 reduction target of 40 percent below 1990 levels. These potential strategies include renewable resources for half of the state's electricity by 2030, increasing the fuel economy of vehicles and the number of zero-emission or hybrid vehicles, reducing the rate of growth in VMT, supporting high-speed rail and other alternative transportation options, and use of high-efficiency appliances, water heaters, and HVAC systems. The Project would not conflict with statewide and utility-provider efforts towards increasing the portion of electricity provided from renewable resources. The Project would be served by SCE for electricity, and SCE has committed to achieving 50 percent renewables by 2025. The Project's GHG emissions would decline in future years as a greater percentage of SCE-provided electricity would come from renewable sources. While CARB is in the process of developing a framework for the 2030 reduction target in the 2017 Scoping Plan, the Project would support and not impede implementation of these potential reduction strategies to be identified by CARB.

2016 RTP/SCS

Transportation-related GHG emissions are the largest sector of emissions from the Project. This finding is consistent with the findings in many regional plans, such as the SCAG 2016 RTP/SCS, which recognizes that the transportation sector is the largest contributor to the state's GHG emissions. The purpose of the SCAG 2016 RTP/SCS is to achieve the regional per capita GHG reduction targets for the passenger-vehicle and light-duty truck sector established by CARB pursuant to SB 375. As part of the 2016 RTP/SCS, "transportation network improvements would be included, and more compact, infill, walkable and mixed-use development strategies to accommodate new region's growth would be encouraged to accommodate increases in population, households, employment, and travel demand." Moreover, the 2016 RTP/SCS states that while "[p]opulation and job growth would induce land use change (development projects) and increase VMT, and would result in direct and indirect GHG emissions," the 2016 RTP/SCS "supports sustainable growth through a more compact, infill, and walkable development pattern" (SCAG 2016).

Consistent with SCAG's 2016 RTP/SCS alignment of transportation, land use, and housing strategies, the Project would accommodate increases in population and households and associated transportation demand by implementing smart land use strategies. The Project Site is an infill location close to shopping and entertainment uses. The Project Site is within an existing commercial and residential area of the city and is transit accessible through RTA's Route 23, which provides transit service to the Temecula Walmart, Pechanga Resort, Temecula Stage Stop on 6th and Front Street, the Temecula Library, the Margarita Road and Ranch California Road intersection, and the County Center.

The Project's location in proximity to commercial and other residential uses and its proximity to transit service renders the project consistent with and in support of the goals and benefits of the SCAG 2016 RTP/SCS, which seeks "improved mobility and accessibility… to reach desired destinations with relative ease and within a reasonable time, using reasonably available transportation choices." The project would support the SCAG 2016 RTP/SCS implementation of "strategies focused on compact infill development, superior placemaking (the process of creating public spaces that are appealing), and expanded housing and transportation choices." As such, the project would be consistent with regional plans to reduce VMT and associated GHG emissions.

City of Temecula Sustainability Plan

The City of Temecula Sustainability Plan was adopted in June 2010 to identify and address current and future climate change goals. The Sustainability Plan includes several goals for reducing GHG emissions through energy and water efficiency, waste reduction, and embracing cleaner technology. The Project would be consistent with the applicable sustainability goals outlined in the plan. The Sustainability Plan incorporates the following goals which would be applicable to the Project:

- Reduce energy consumption throughout the community through use of the latest technology, practices, and programs that support this goal.
- Support the use of clean energy throughout the community through use of the latest technology, practices, and programs.
- Reduce total waste generated and reduce the use and release of household hazardous waste.
- Distribute trip types among all modes of transportation (vehicle, transit, pedestrian, bicycle, etc.).

The Project would minimize energy consumption through the use of energy metering and would support the use of clean energy through meeting the Tier 1 Standards of the CalGreen Code. Energy consumption would additionally be reduced through compliance with the 2019 California Energy Code, which achieved a 53 percent reduction in residential energy use as compared to the 2016 California Energy Code through solar photovoltaic installation requirements. As discussed in Section 19.d and 19.e, Utilities and Service Systems, the project would reduce waste by contracting with a City-approved waste hauler, which would provide removal in accordance with the City Ordinance, including compliance with the 50 percent waste diversion rate required by the State for all solid waste and solid waste generated by the project. As discussed in Section 9, Hazards and Hazardous Materials, the project would reduce the use and release of household hazardous waste in accordance with state and federal regulations regarding hazardous materials.

Furthermore, as discussed above, the project would be located close to existing public transit and would encourage multi-modal transportation (vehicle, transit, pedestrian, bicycle, etc.). The project's consistency with these goals along with the 2017 Scoping Plan and SCAG RTP/SCS would ensure that the project would not conflict with adopted plans, policies, or regulations for reducing the emission of GHGs. As such the Project would not conflict with any applicable plans or policies and impacts would be **less than significant**.

References:

California Air Resources Board. 2017. *2017 California Climate Change Scoping Plan*. Available: https://ww3.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf. Accessed November 18, 2019.

CARB. *See* California Air Resources Board.

SCAG. *See* Southern California Association of Governments.

SCAQMD. *See* South Coast Air Quality Management District.

South Coast Air Quality Management District. 2008 (October). Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold -- Attachment E. Available: https://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/ghgattachmente.pdf?sfvrsn=2. Accessed November 18, 2019.

———. 2009 (November 19, 2009). Greenhouse Gas CEQA Significance Threshold Stakeholder Working Group #14 Presentation. Available: http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-14/ghg-meeting-14-main-presentation.pdf?sfvrsn=2. Accessed November 18, 2019.

Southern California Association of Governments. 2016 (April). *The 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy: A Plan for Mobility, Accessibility, Sustainability and a High Quality of Life*. Available: http://scagrtpscs.net/Documents/2016/final/f2016RTPSCS.pdf. Accessed November 18, 2019.

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

Comments:

9.a. **Less Than Significant Impact**. The Phase 1 ESA is included in Appendix E. A hazardous material is defined as any material that due to its quantity, concentration, physical or chemical characteristics, poses a significant present or potential hazard to human health or to the environment if released. Project-related construction and operation activities would involve the temporary use, transport, and construction of hazardous materials in the form of inorganic and organic chemicals, solvents, mercury, lead, asbestos, paints, oil, gasoline, cleansers, or pesticides. However, the construction-related transport, use storage, and disposal of hazardous materials would be temporary, occurring over 14 months. All materials would be used, stored, and disposed of in accordance with applicable laws and regulations and manufacturers' instructions. Furthermore, any emissions from the use of such materials would be temporary in nature and localized to the Project Site. One constructed, the ongoing operational characteristics would not involve the type of activities that often give rise to concerns regarding hazardous materials.

A Phase I Environmental Site Assessment (ESA) has been prepared for the project by Partner Engineering and Science, Inc. on June 14, 2019 and included as Appendix E of this MND. The Phase I ESA determined that no recognized environmental conditions (REC), controlled recognized environmental conditions (CREC), and historical recognized environmental conditions (HREC) were present on the Project Site. Therefore, neither Project construction nor operation would create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials and impacts would be less than significant.

9.b. **Less Than Significant Impact**. Project-related construction and operation activities would involve the temporary use, transport, and construction of hazardous materials in the form of inorganic and organic chemicals, solvents, mercury, lead, asbestos, paints, oil, gasoline, cleansers, or pesticides. Construction of the Project would temporarily increase the use of typical construction materials at the Project Site, including concrete, hydraulic fluids, paints, cleaning materials, and vehicle fuels. The use of these materials during construction would be short-term in nature, occurring over 14 months, and would be required to comply with federal, state, County, and City regulations relating to control of hazardous materials. Compliance with these regulations would reduce the likelihood of accidents and risks associated with release of hazardous materials. Potentially hazardous materials would be contained, stored, and used in accordance with manufacturers' instructions and handled in compliance with applicable standards and regulations. One constructed, the ongoing operational characteristics would not involve the type of activities that often give rise to concerns regarding hazardous materials.

As discussed in Response 9.a. above, the Phase I ESA assessment determined that no recognized environmental conditions (REC), controlled recognized environmental conditions (CREC), and historical recognized environmental conditions (HREC) were present on the Project Site. Therefore, neither construction nor operation of the Project is anticipated to create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment and impacts would be less than significant.

9.c. **Less Than Significant Impact.** There are no schools located within one-quarter mile of the Project Site. The nearest school to the Project Site is the Temecula Elementary School, which is located approximately 0.60 miles southeast of the Project Site. Project construction would involve the temporary use of hazardous substances in the form of paint, adhesives, surface coatings and other finishing materials, and cleaning agents, fuels, and oils. The Project will adhere to existing regulations and compliance with the safety procedures mandated by applicable federal, state, and local laws and regulations, which will minimize the risks resulting from handling of hazardous materials within 0.25 mile of a school. Any emissions from the use of such materials would be temporary and localized to the Project Site. However, these materials are required to be handled in accordance with applicable regulations and would likely be localized to the Project Site. Existing schools are located at an enough distance from the Project Site to not be significantly impacted if hazardous materials are encountered during construction of the Project.

Project-related operational activities would use and store small quantities of potentially hazardous materials such as cleaning solvents, painting supplies, and pesticides and fertilizers for landscaping. These materials would be used in small quantities and in accordance with the manufacturers' instructions for use, storage, and disposal of such products. As with construction, any emissions from the use of such materials regarding the operation of the Project would be minimal and localized to the Project Site. Furthermore, no schools are located within a quarter mile of the Project. Use of these materials onsite would not pose a risk to schools in the Project vicinity, since there would be minimal emissions, and they would be localized to the Project Site. Therefore, development of the Project would result in less than significant impacts regarding hazardous materials at any existing or proposed schools within a one-quarter mile radius of the Project Site. No further analysis of this topic in the Initial Study is required.

9.d. **No Impact**. Government Code Section 65962.5, amended in 1992, requires CalEPA to develop and update annually the Cortese List, which is a list of hazardous waste Sites and other contaminated Sites. According to the CalEPA website, no hazardous materials are located within the Project Site and no hazardous material Sites are located within a 1,000-foot radius of the Project Site, compiled pursuant to Government Code Section 65962.5 (EnviroStar, 2019). The Project would have no impact and analysis of this issue in the Initial Study is not necessary.

9.e. **No Impact**. According to Figure LU-2, of the City of Temecula General Plan, the Project Site is not located within an airport land use plan or within two miles of a public airport. The closest airport to the Project Site is the French Valley Airport located at 37600 Sky Canyon Drive, Murrieta, which is approximately 4.6 miles to the northeast. The Project would have no impact and analysis of this issue in the Initial Study is not necessary.

9.f. **Less Than Significant Impact**. The Project Site is located in an urban area with an establish roadway network. The surrounding roadways provide adequate circulation and access to provide and facilitate emergency response. Project design would provide emergency access from Via La Vida and as part of the final Site plan is subject to approval by

the Temecula Fire Department (FD). Project-related construction activities have the potential to result in short-term, temporary impacts to surrounding roadways as a result of construction vehicles, which may cause temporary traffic slowdown or partial road closures. Any impacts associated with construction activities would be temporary in nature and would be generally confined to the Project Site. All construction activities would be subject to emergency access standards and requirements of the Temecula FD to ensure traffic safety. Furthermore, the Project would not modify any roads, result in road closures, or otherwise affect emergency response times and would maintain adequate emergency access. Therefore, the Project would not impair or physically interfere with an adopted emergency response plan or emergency evacuation plan. Project impacts would be less than significant.

9.g. Less Than Significant Impact. The Project Site is not located in or near a CalFire designated fire hazard severity zone and does not contain a significant amount of vegetation and is characterized by flat topography. The Project would adhere to all applicable standards and regulations related to fire protection and prevention such that wildland fire hazards would be less than significant.

References:

City of Temecula. 1993. Temecula General Plan. Updated 2005, Land Use Element, Figure LU-2, French Valley Airport Land Use Compatibility Zones, page LU-7.

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

Comments:

10.a. **Less Than Significant Impact**. Project implementation would result in development of 107 residential suites on a currently vacant site. Development of the Project includes a total of 198,682 square feet(building/parking lot areas) of impervious surfaces. The Project is designated a Priority Development Project and is required to comply with the development planning requirements of the San Diego Regional Water Quality Control Board (SDRWQCB) MS4 permit and the City of Temecula Stormwater Ordinance. As shown in Figure 5, the proposed Project design implements non-structural, structural, source control and treatment control Best Management Practices (BMPs), which can include infiltration basin, detention basin, vegetated swale, media filter, pervious concrete, storm drain stenciling or signage, protection of material and trash storage areas from rainfall, and vector avoidance strategies. The proposed Project Site drainage would implement the following BMPs in accordance with the Water Quality Management Plan (WQMP) and capture and convey stormwater runoff from developed areas to underground retention/detention stormwater water quality mitigation system via private storm drain inlets and drainage networks. Development of the Project is required to comply with all water quality standards or waste discharge requirements. By complying with the WQMP requirements for a Priority Development Project impacts related to violation of water quality standards and waste discharge requirements are anticipated to be less than significant.

10.b. **Less Than Significant Impact**. Project implementation would result in development of 107 assisted living and memory care units on a currently vacant Site. Water would be supplied to the Project by the Rancho California Water District (RCWD). The Project would slightly increase the demand for water from the RCWD. The RCWD currently obtains water from the following primary water sources: 1) local groundwater from the Murrieta-Temecula Groundwater Basin; 2) imported State Water Project (SWP) and Colorado River water from the Metropolitan Water District of Southern

California (MWDSC) through the Eastern Municipal Water District (EMWD) and the Western Municipal Water District (WMWD); and 3) recycled water from both the District and EMWD facilities. The Water Facilities Master Plan predicts an additional annual groundwater capacity which will be generated through increasing artificial recharge of the groundwater basin by 22,443 acres feet per year (AFY). An additional annual supply of 5,319 AFY of recycled water is also anticipated by buildout. The full build-out annual capacity of the EWMD is anticipated to be 115,002 AFY and is greater than the projected build-out annual production requirement of 110,714 AFY. The proposed Project is considered as part of the full build-out area, and therefore would be adequately served by the projected water supply for the EMWD and would not substantially decrease groundwater supplies. As discussed in response 10.a. the Project is designed to promote stormwater infiltration and groundwater recharge. Therefore, Project impacts would be less than significant.

10.c.i. Less Than Significant Impact. the Site currently drains in a westerly direction towards Margarita Road, where stormwater flows into an existing storm drain system. Multiple storm drains from surrounding developments to the east surface drain into and through the existing Site. A drainage course runs through the property from east to west and drainage enters into a 72-inch public storm drain inlet located along the northwestern property boundary near Margarita Road. Portions of the project site are below the existing storm drain inlet elevation, creating a ponding condition near Margarita Road following storm events. The onsite ponding condition following storm events would remain following project implementation, and would be pushed further east, adjacent to the proposed storm drain inlet structure. Ponded water is expected to percolate into the groundwater within 24 hours of the end of a storm event.

The proposed Project is designated a Priority Development Project and therefore the Project was required to prepare a WQMP. Additionally, the Project design complies with the local City of Temecula Stormwater and Urban Runoff Management and Discharge Controls Ordinance (Chapter 8.28 et seq.) and regional MS4 Permit (California Regional Water Quality Control Board San Diego Region Order No. R9-2013-0001 as amended by R9-2015-0001 and R9-2015-0100) requirements for stormwater management; as well as the requirements of the City of Temecula Engineering and Construction Manual (Chapter 18) and the City of Temecula Erosion and Sediment Control Ordinance (Chapter 18.18 et seq.) The WQMP includes specific drainage features and low impact development BMPs, which included measures to reduce increased runoff though hydromodification and infiltration protection as well as maintenance practices. Additionally, approximately 1.2 acres of the undeveloped Project Site would be maintained as natural area to facilitate stormwater infiltration and retention. Whenever practical and feasible all roof tops, parking lot areas, and sidewalks were designed to drain to landscaped areas. Potential erosion, siltation, and increased runoff would be minimized through implementation of the WQMP and adherence to the SWPPP. With implementation of erosion and sediment control BMPs, construction would result in a less than significant erosion, siltation, and runoff impact.

10.c.ii. Less Than Significant Impact. According to Figure PS-2 of the City of Temecula General Plan, the Project Site is not located within a 100 Year Flood Zone. Project implementation would result in development of 107 residential suites on a currently vacant Site. Development of the Project would contribute an increase of 198,682 sf impervious surfaces. The Project is required to implement a SWPPP during construction to reduce pollutants and stormwater runoff. Compliance with the NPDES requirements minimize potential impacts related to flooding. Therefore, the impacts would be less than significant.

10.c.iii. Less Than Significant Impact. Construction within the Project Site would be required to comply with the development planning requirements of the SDRWQCB MS4 permit and the City of Temecula Stormwater Ordinance. The Project would be required to generate a project-specific WQMP as required by the City of Temecula Stormwater Ordinance and as specified in the City's Jurisdictional Runoff Management Plan. The implementation of the specific drainage features within each WQMP would ensure that the Project would meet the City's MS4 Permit and Stormwater Ordinance requirements. As a part of the WQMP, the Project would be required to incorporate and maintain LID BMPs into the project design, which include measures to reduce increases in runoff through hydromodification and infiltration protection. Therefore, impacts would be less than significant in this regard.

10.c.iv. **Less Than Significant Impact**. According to Figure PS-2 of the City of Temecula General Plan, the Project Site is not located within a 100-Year Flood Zone. Therefore, development of the Project would not result in impacts related to impeding or redirecting flood flows. The Project would have a less than significant impact and analysis of this issue in the Initial Study is not necessary.

10.d. **No Impact**. A seiche is an oscillation of a body of water in an enclosed or semi-enclosed basin, such as a reservoir, harbor, lake, or storage tank. A tsunami is a great sea wave, commonly referred to as a tidal wave, produced by a significant undersea disturbance such as tectonic displacement of the sea floor associated with large, shallow earthquakes. Mudflows result from the downslope movement of soil and/or rock under the influence of gravity.

According to Figure PS-2 of the City of Temecula General Plan, the Project Site is not located within a 100 Year Flood Zone or within a dam inundation area. The Project Site is not subject to tsunami hazards given its distance to the Pacific Ocean. Furthermore, the gently sloping topography of the project area is not conducive to sustaining mudflows. The Project would have no impact and analysis of this issue in the Initial Study is not necessary.

10.e. **Less Than Significant Impact**. The Project is designed to not violate water quality standards or waste discharge requirements. The Project would be required to comply with all applicable requirements of the NPDES General Construction Permit issued by the SDRWQCB. The Project would be required to implement a SWPPP during construction that includes BMPs to reduce pollutants in stormwater runoff from the Project Site. By complying with the NPDES requirements, potential impacts to conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan are anticipated to be less than significant. No further analysis of this topic in the Initial Study is required.

References:

City of Temecula, Temecula General Plan, 1993, Updated 2005, Public Safety Element, Figure PS-2, Flood Hazards and Dam Inundation Areas, page PS-11.

Rancho California Water District, Water facilities Master Plan, December 2015

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

Comments:

11.a. **No Impact**. The Project Site is currently vacant and undeveloped grassland with mature trees and a riparian corridor. No residential units exist on the Project Site and the Project would have no potential to divide an established community. No changes to the existing General Plan land use designations would be made and the Project is consistent with surrounding residential and commercial land uses. Therefore, the Project would have no impact.

11.b. **Less Than Significant Impact**. As discussed under Response 11.a., the Project would not change the existing General Plan land use designations. The Project is surrounded by residential uses to the north, south, and west; development of the residential care facility is compatible with the surrounding residential and nearby commercial land uses. The proposed project is consistent with the current City General Plan land use designations which are Professional Office (PO) and Open Space (OS). Existing onsite zoning designations are Professional Office (PO) and Open Space-Conservation (OS-C). The proposed building structure is an allowable use on the Project Site under the City of Temecula Zoning Ordinance definition of "Congregate Care Housing for the Elderly". Furthermore, the development of the 91,002-sqaure foot assisted living and memory care facility would also comply with the High-Density Residential Zoning Code and Development Standards. Therefore, the Project would not conflict with any land use plan, policy, or regulation. Therefore, impacts would be less than significant in this regard.

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

Comments:

12.a-b. **No Impact**. The Project Site is located within an urban area that is almost entirely developed. Per the City of Temecula General Plan, the Project Site is located in mineral zone classification Mineral Resource Zone 3a (MRZ-3a). As designated by the State Geologist, the MRZ-3 areas contain sedimentary deposits that have the potential to supply sand and gravel for concrete and crushed stone for aggregate. However, the Project Site is not known to contain mineral deposits of significant economic value or any locally important mineral resources. Project development does not incorporate heavy industrial uses of any type or proposed mineral development activities. Therefore, implementation of the Project would result in no impact regarding mineral resources and further analysis of this issue in the Initial Study is not necessary.

References:

City of Temecula, Temecula General Plan, 1993, Updated 2005, Open Space/Conservation Element, page OS-21.

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

13.a. **Less than Significant Impact**. Noise is defined as unwanted sound; however, not all unwanted sound rises to the level of a potentially significant noise impact. To differentiate unwanted sound from potentially significant noise impacts, the City has established noise regulations that take into account noise-sensitive land uses. The following discussion includes a brief description of the fundamental principles of noise and commonly used noise descriptors, a summary of applicable noise standards, and an evaluation of project-generated construction and operational noise.

NOISE PRINCIPLES AND DESCRIPTORS

Audible sound is a physical disturbance in a medium, such as air, that is capable of being detected by the human ear. Sound waves in air are caused by variations in pressure above and below the static value of atmospheric pressure. Sound is measured in units of decibels on a logarithmic scale. The "pitch" (high or low) of the sound is a description of frequency, which is measured in hertz. Most common environmental sounds are composed of a composite of frequencies.

The time-varying characteristic of environmental noise over specified periods of time is described using statistical noise descriptors in terms of a single numerical value, expressed as A-weighted decibels (dbA). The noise descriptors used in this analysis are summarized below:

- **L_{eq}:** The L_{eq}, or equivalent sound level, is used to describe the noise level over a specified period of time, typically 1-hour, expressed as L_{eq}. The L_{eq} may also be referred to as the "average" sound level.
- **L_{max}:** The maximum, instantaneous noise level.
- **CNEL:** Community Noise Equivalent Level is the average noise level over a 24-hour day that includes an addition of 5 dBA to the measured hourly noise levels between the evening hours of 7:00 p.m. to 10:00 p.m. and an addition of 10 dBA to the measured hourly noise levels between the nighttime hours of 10:00 p.m. to 7:00 a.m. to account for noise sensitivity during the evening and nighttime hours, respectively.

CITY OF TEMECULA MUNICIPAL CODE

The Municipal Code Title 8 Chapter 9.20,"Noise," declares that the making, creating, or continuance of excessive noises are detrimental to the public health, comfort, convenience, safety, welfare, and prosperity of the residents of the City. Section 9.20.060 establishes sound level limits. The exterior noise limits for each land use classification are summarized in Table 13-1. One-hour average sound levels are not to exceed the applicable limit. The noise subject to these limits is defined as that part of the total noise at the specified location that is due solely to the action of said person.

Per the Municipal Code Section 9.20.060.D, construction noise levels measured at or beyond the property lines of any property zoned residential shall not exceed an average sound level greater than 65 dBA. Further, construction activity may only occur between 7:00 a.m. through 6:30 p.m. Monday through Friday. Construction activities on Saturday are limited between the hours of 7:00 a.m. and 6:30 p.m. No construction activity shall be undertaken on Sunday and national recognized holidays unless exempted by Section 9.20.070 of the Temecula Municipal Code.

Table 13-1 City of Temecula Land Use/Noise Standards

Property Receiving Noise		Maximum Noise Level (CNEL, dBA)	
Type of Land Use	Land Use Designation	Interior	Exterior[1]
Residential	Hillside, Rural, Very Low Density, Low Density, Low-Medium Density	45	65
	Medium Density	45	65/70[2]
	High Density	45	70[2]
Commercial and Office	Neighborhood, Community, Highway Tourist, Service	N/A	70
	Professional Office	50	70
Light Industrial	Industrial Park	55	75
Public/Institutional	School	50	65
	All Others	50	70
Open Space	Vineyards/Agricultural	N/A	70
	Open Space	N/A	70/65[3]

Notes: CNEL = community noise equivalent level, dB = decibel, CNEL = community-noise equivalent level

[1] Regarding aircraft-related noise, the maximum acceptable exposure for new residential development is 60 dBA CNEL.

[2] Maximum exterior noise levels up to 70 dBA CNEL are allowed for Multiple-Family Housing.

[3] Where quiet is a basis required for the land use.

Source: City of Temecula 2005

CONSTRUCTION

Project-generated construction noise levels were assessed qualitatively based on the anticipated construction work and equipment mix, and would result in a minor increase in daily trips (ADT). The potential for construction activities to expose receptors to excessive levels of noise was assessed based on the types of construction activity that would occur and the proximity of construction activity to existing nearby receptors which are located within 100 feet from the project site.

The project construction schedule is anticipated to begin in August 2020 and be complete in October 2021. Construction hours are proposed to be from 7:00 a.m. to 6:30 p.m. Monday through Friday. No demolition would occur.

Noise from construction activities would be generated by the operation of vehicles and equipment involved during various stages of construction: site preparation, grading, building construction, architectural coating, and paving. The noise levels generated by construction equipment would vary depending on factors such as the type and number of equipment, the specific model (horsepower rating), the construction activities being performed, and the maintenance condition of the equipment.

The closest receptors to the project site are approximately 100 feet from the construction site. The City of Temecula has established a construction-noise significance threshold of 65 dB L_{eq} at a site supporting a sensitive receptor. It is foreseeable that construction activities could introduce new levels of noise; however, the extent of construction equipment required to construct the proposed project would be minor due to the size of the project. Moreover, the

proposed project would be constructed over a relatively short period (14 months) and would generate low construction-related ADT. Project construction would also be required to adhere to Section 9.20.060.D of the City's municipal code which stipulates that construction activity must be limited to the hours of 7:00 a.m. to 6:30 p.m. Monday through Friday. Because additional ADT associated with construction would be minor, would be temporary, would be limited in scale due to project size, and would occur during the daytime hours when people are less sensitive to noise, construction noise impacts would be less than significant.

OPERATION

Operations-related noise impacts due to project-generated increases in traffic were evaluated qualitatively based on the increased ADT identified in Section 17, "Transportation."

The existing noise environment in the project vicinity is dominated by traffic noise from nearby roadways, as well as nearby commercial activities. Long-term operations of the proposed project would have a minimal effect on the noise environment within the proximity of the project area. Noise generated by the proposed project would result primarily from the increased traffic on local roads.

Vehicle trips attributed to operation of the project would increase the ADT volumes to the vicinity of the project site by 276 ADT. These trips would be distributed throughout the vicinity of the project site and would introduce noise to varying degrees depending on location and existing levels of traffic. This increase in ADT would not be sufficient to introduce 3 dB of new noise to the existing environment, which would constitute an increase perceivable by the human ear. As such, new traffic noise would not be substantial such that a human could detect an increase. As a result, project-related traffic noise impacts would be less than significant.

13.b. **Less than Significant Impact.** The proposed project would not result in any major operational sources of vibration (e.g., rail lines, transit stations), and therefore, this discussion focusses on short-term construction-generated vibration. Prior to the analysis, a brief discussion of vibration principles is included.

FOUNDATIONS OF VIBRATION

Vibration can be interpreted as energy transmitted in waves through the ground or man-made structures, which generally dissipate with distance from the vibration source. Because energy is lost during the transfer of energy from one particle to another, vibration becomes less perceptible with increasing distance from the source.

Vibration sources include the use of heavy-duty equipment during construction. Operational sources include major transit (e.g., rail, transit stations) development. Maintenance operations and traffic traveling on roadways can also be a source of such vibration. If its amplitudes are high enough, ground vibration has the potential to damage structures, cause cosmetic damage or disrupt the operation of vibration-sensitive equipment such as electron microscopes and advanced technology production and research equipment. Ground vibration and ground-borne noise can also be a source of annoyance to individuals who live or work close to vibration-generating activities.

In describing vibration in the ground and in structures, the motion of a particle (i.e., a point in or on the ground or structure) is used. The concepts of particle displacement, velocity, and acceleration are used to describe how the ground or structure responds to excitation. Although displacement is generally easier to understand than velocity or acceleration, it is rarely used to describe ground and structure borne vibration because most transducers used to measure vibration directly measure velocity or acceleration, not displacement. Accordingly, vibratory motion is commonly described by identifying the peak particle velocity (PPV).

Possible sources of vibration would include heavy-duty construction equipment such as pile drivers, bulldozers, dump trucks, backhoes, rollers, and blasting activities. It is not anticipated that blasting or pile driving would be required, thus, the use of heavy-duty bulldozers would generate the greatest levels of vibration.

When considering potential impacts from construction-related vibration, both structural damage and human disturbance within occupied nearby structures are considered. Regarding structural damage, Caltrans provides guidance for various structure types. In accordance with Caltrans guidance, a residential structure could be damaged

if exposed to vibration levels that exceed 0.5 PPV/second (Caltrans 2013). Regarding human disturbance from construction activities, FTA considers a vibration level of 65 VdB to be the threshold of perceptibility for humans. Based on FTA's vibration criteria, a significant impact would occur if vibration levels exceeded 80 VdB within places where people normally sleep (FTA 2018). As discussed above, construction activities would take place during the daytime hours when people are generally not sleeping and would therefore not be disrupted. Thus, impacts associated with construction-related ground vibration and vibration noise would be less than significant.

13.c. **No Impact**. According to Figure LU-2, of the City of Temecula General Plan, the Project Site is not located within an airport land use plan or within two miles of a public airport. The French Valley Airport located at 37600 Sky Canyon Drive, Murrieta, is approximately 4.6 miles northeast of the Project Site. No further analysis of this topic in the Initial Study is required.

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

Comments:

14.a. **Less than Significant Impact**. The total population in the City of Temecula is approximately 113,054 people (US Census 2016). Implementation of the Project would result in development of 107 residential suites for senior care for 111 residents and would employee 80 full time equivalent employees. The Project would increase the total population by approximately 0.10 percent and would not substantially increase the population or result in unplanned population growth in the area. Additionally, the Project is considered within the General Plan population projections and would not directly or indirectly contribute to population growth. Therefore, the Project's impacts would be less than significant.

14.b. **No Impact**. The Project Site is currently vacant and undeveloped with no housing units. Project implementation would not result in a displacement of housing or a substantial number of people. The Project would have no impact and no further analysis of this topic in the Initial Study is required.

15. PUBLIC SERVICES. Would the project:					
	Issues and Supporting Information Sources	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
	Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered government facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the following public services:				
a	Fire protection?			X	
b	Police protection?			X	
c	Schools?			X	
d	Parks?			X	
e	Other public facilities?			X	

Comments:

15.a. **Less than Significant Impact**. Fire protection and emergency medical services are provided to the City and the Project Site by the Temecula Fire Department (FD), who contracts with the Riverside County Fire Department (RCFD). Construction and operation of the Project would introduce temporary construction workers, 111 residents, and 80 full time equivalent employees on the Project Site. The Project is not expected to induce substantial population growth nor would it result in substantial adverse effects on Temecula FD services and facilities which would require new or physically altered facilities to maintain service. Additionally, the Project would be required to pay the Fire Development Impact Fee at the time of the completion of the first building permit. The Project would have a less than significant impact.

15.b. **Less than Significant Impact.** Police services for the City and the Project Site are provided by the City of Temecula Police Department (PD), who contracts with the Riverside County Sheriff Department (RCSD). Construction and operation of the Project would introduce temporary construction workers, 111 residents, and 80 full time equivalent employees on the Project Site. The Project is not expected to induce substantial population growth and result in substantial adverse effects on Temecula PD services and facilities which could result in the need for new or physically altered facilities to maintain service. No further analysis of this topic in the Initial Study is required. The Project would have a less than significant impact.

15.c. **Less than Significant Impact.** The Project Site falls under the jurisdiction of the Temecula Valley Unified School District (TVUSD). Implementation of the Project would result in the development 107 residential suites for 111 senior residents. Project development would not generate school-aged children and thus would not result in the need for new or physically altered facilities to maintain service. The Project would have a less than significant impact on schools.

15.d. **Less than Significant Impact.** Project implementation would introduce temporary construction workers, 111 residents, and 80 full time equivalent employees on the Project Site. This population increase could possibly increase demand on parks services and facilities which could result in the need for new or physically altered facilities to maintain service. The Project meets the basic park acreage standard for the City of Temecula which is 5.0 acres of usable City-owned parkland per 1,000 residents. Based on this requirement the Project would be required to provide 0.55 acres of park or pay park fees. However, the Project contains park and recreation areas to serve residents onsite. Therefore, the Project would have a less than significant impact on parks.

15.e. **Less than Significant Impact.** The Project Site is currently served by the Ronald H. Roberts Temecula Public Library, located approximately 3.5 miles away at 30600 Pauba Road. Construction and operation of the Project would introduce temporary construction workers, 111 residents, and 80 full time equivalent employees on the Project Site. The Project is not expected to induce substantial population growth and result in substantial adverse effects on library services so that there was a need for new or physically altered facilities to maintain service. Therefore, the Project would have a less than significant impact on library resources.

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

Comments:

16.a. **Less than Significant Impact**. Implementation of the Project would result in the development of 107 residential suites for 111 residents. Project operations would introduce additional residents on the Project Site, however due to the nature of the facility residents are expected to remain mostly on Site. Therefore, the Project contains various recreational facilities onsite including to serve the residents of the facility. Onsite recreation amenities include exercise rooms, theater and entertainment areas and outdoor courtyards with walking paths, patios, shade gardens, ponds, fountains, and relaxation and recreation areas. The basic park acreage standard for the City of Temecula is 5.0 acres of usable City-owned parkland per 1,000 residents. Based on this, the Project is required to provide 0.55 acres of parks or pay an in-lieu fee. As discussed in Public Services Response 15.d. the Project provides an additional acreage of park area onsite which adequately meets the City's park acreage requirements. Additionally, Project operations are not expected to cause substantial deterioration of existing neighborhood and regional parks or other recreational facilities. Therefore, the Project's impacts would be less than significant.

16.b. **Less than Significant Impact**. Implementation of the Project would result in the development of 107 residential suites for 111 residents. As discussed under Response 16.a. the Project would contain recreational facilities to serve residents onsite. Therefore, Project operation would not lead to the need for new or expanded recreational facilities. Therefore, the Project's impacts would be less than significant.

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

Comments:

17.a. **Less Than Significant Impact**. Project implementation would introduce temporary construction workers, 111 residents, and 80 full time equivalent employees on the Project Site. Project-related construction activities have the potential to result in short-term, temporary impacts to surrounding roadways as a result of construction vehicles and worker vehicle trips, which may cause temporary traffic slowdown or partial road closures. The proposed Project would add an estimated 276 trips to surrounding roadways. Given the relatively small size of the Project and the short-term nature of construction (up to 14 months) no major traffic impacts are anticipated as a result of Project. Therefore, the Project's impacts would be less than significant.

17.b. **No Impact**. CEQA Guidelines section 15064.3 describes specific considerations for evaluating a project's transportation impacts. Generally, vehicle miles traveled (or "VMT") is identified as the most appropriate measure of transportation impacts. For the purposes of this CEQA section, "vehicle miles traveled" refers to the amount and distance of automobile travel attributable to a project. Lead agencies are required to approve a VMT significance threshold by July 1, 2020. Pursuant to state law and City of Temecula policy, VMT analysis is not required for projects that have initiated the CEQA document public review process prior to July 1, 2020.

17.c. **Less Than Significant Impact**. Roadways surrounding the Project Site are part of an established road network that serves the City of Temecula and do not contain sharp curves or dangerous intersections. Construction of the Project would alter pedestrian and vehicular access to the Project Site (i.e. new sidewalks, curbs, etc.). Access to the Site would be provided from the following existing roadways: Solana Way from the northwest and Via La Vida from the south. The proposed internal circulation and vehicular access adhere to the City's design standards in relation to protection or pedestrian and bicycle traffic and do not substantially increase hazards due to a geometric design feature or incompatible use. Therefore, a less than significant impact would occur. No further analysis of this topic in the Initial Study is required.

17.d. **Less Than Significant Impact.** Roadways surrounding the Project Site are part of an established road network that serves the City of Temecula. Access to the Site would be provided from the following existing roadways: Solana Way from the northwest and Via La Vida from the south. Secondary emergency access would be provided from Via La Vida. Construction-related activities would result in a short-term increase in vehicle trips on surrounding roadways, which may temporarily affect impact access. The Project includes adequate emergency access and would implement traffic control measures such as construction flagmen, signage, etc. as needed. Furthermore, final design plans would be reviewed by the City Public Works Department and Temecula FD to ensure adequate emergency access is maintained. The Project is not part of a City-designated emergency evacuation route nor would it prevent implementation of the City's emergency response plan. Therefore, construction of the Project is not expected to result in inadequate emergency access and would have a less than significant impact.

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

Comments:

18.a.i.-ii. Less than Significant with Mitigation Incorporated.

The City of Temecula completed mandatory compliance with Public Resources Code § 21074 associated with the environmental review of the proposed Project. There is high potential for finding tribal cultural resources during ground-disturbing construction activities. Accordingly, there is a potential for significant impacts to occur if tribal cultural resources are discovered during the Project's construction process. Per the request of the Pechanga Band of Luiseño Mission Indians in correspondence associated with the AB-52 consultation process, the implementation of tribal monitoring during grading activities is required as a Mitigation Measure for this Project. Implementation of Mitigation Measures MM – CUL-1 through MM-CUL-5 would ensure any tribal cultural resources that may be uncovered during grading, trenching, or other ground-disturbing activities are appropriately assessed, avoided, and recorded. In addition, implementation of Mitigation Measure MM-CUL-6 would ensure any buried human remains that may be uncovered during grading, trenching, or other ground-disturbing activities are appropriately treated. Specifically, Mitigation Measure MM-CUL-6 implements State law and requires a contractor to immediately stop work in the vicinity of the discovery and notify the County Medical Examiner.

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

Comments:

19.a. **Less Than Significant Impact**. Implementation of the Project would result in the development of 107 residential suites for 111 residents on a vacant site and would result in a slight increase in demand for water, wastewater treatment, and storm water drainage. The Project would connect to existing potable water, wastewater and storm drain systems in the City of Temecula. As discussed in the Hydrology Section, the proposed drainage system is designed to increase stormwater retention and infiltration onsite for the treatment of wastewater. The Project would connect to existing electric power and would not require new telecommunication facilities. Relocation of utilities would not be required as part of the Project. Therefore, given the associated minimal increase in demand for water service and wastewater treatment, and existing available infrastructure, the potential for Project development to require the construction or expansion of water and/or wastewater treatment facilities is considered unlikely. Therefore, no further analysis of this issue in the Initial Study is necessary.

The Project contains an extensive storm drainage system to treat stormwater onsite. Storm drains would direct onsite flows to underground retention and infiltration systems located on the south and north side of the Project development. A 72-inch storm drain is proposed to connect an existing open space area to the east and direct existing flows to an existing stormdrain and pervious landscaped areas along the western side of the Project.

19.b. **Less Than Significant Impact**. As discussed in the Hydrology Section Response 10.b, the Project is part of the Rancho California Water District (RCWD). Implementation of the Project would result in a slight increase in water demand. The proposed Project is considered as part of the full build-out area, and therefore would be adequately served by the projected water supply expected for the RCWD during normal, dry, and multiple dry years and would not substantially decrease groundwater supplies. Therefore, the Project would have a less than significant impact on water supplies.

19.c. **Less Than Significant Impact**. Implementation of the Project would result in additional development in a previously undeveloped area. New development would introduce 91,002 square feet of assisted living and memory care space requiring wastewater treatment. The Project would connect to the existing wastewater collection system and would not exceed the capacity of existing wastewater collection and treatment facilities serving the Project area. Therefore, the Project impacts would be less than significant.

19.d. and e. **Less Than Significant Impact**. Project construction and operation would generate a small amount of additional solid waste. The City of Temecula has a contract with CR&R Inc. for trash and recycling services. CR&R Inc. has a total of six disposal facilities which provide state of the art recycling and green waste programs. Given the capabilities of the CR&R and the small amount of solid waste that would be generated by Project construction and operation, the Project is not expected to generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals. Additionally, solid waste management under CR&R Inc. is required to comply with all federal, state, and local statutes and regulations. Therefore, the Project would also be in compliance with these requirements. Therefore, the impact of the Project on solid waste would be less than significant and would comply with all applicable regulations.

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

Comments:

19.a-d. **No Impact.** The Project Site is not classified as a very high hazard severity zone nor is it located near or within a Cal Fire designated state responsibility area (SRA) (Calfire, 2009) (Calfire, 2019). The closest VHFHSZ is located approximately 1.4 miles for the west of the Project Site and the closest SRA is located approximately 3 miles away to the east of the Project Site. Therefore, the Project would have no impact and no further analysis of this issue is required in the Initial Study.

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

Comments:

21.a. Less Than Significant With Mitigation Incorporated. Based on evaluations and discussions contained in this Initial Study, Project development is not anticipated to substantially degrade the quality of the environment. Furthermore any potential impacts would be minimized with relevant mitigation measures.

21.b-c. Less Than Significant With Mitigation Incorporated. Based on evaluations and discussions contained in this Initial Study, Project development is not anticipated to have incremental effects that would be cumulatively considerable effects in context of the effects of past, current and probable future projects nor is it expected to cause substantial adverse effects on human beings directly or indirectly. Impacts would be less than significant with the incorporation of mitigation measures.

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Appendix A – Air Quality Calculations

Solano Senior Housing

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Congregate Care (Assisted Living)	105.00	Dwelling Unit	4.69	48,380.00	300

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Climate zone 10 based on 92591 zip code. Assumes construction would start in early August 2020 and first year of operation would be 2022.

Land Use - Project entails construction of a 48,380 Assisted Living Facility of 105 dwelling units on 4.69-acre parcel

Construction Phase - Assumes construction would occur Monday through Friday over a 14-month period starting in early August 2020. No demolition as a part of the project.

Off-road Equipment - Assumes CalEEMod defaults.

Vehicle Trips - Weekday trip rates derived from ITE Land Uses 254 and 255.

Woodstoves - CalEEMod defaults.

Area Coating - Consistent with SCAQMD Rule 1113

Landscape Equipment - Assumes CalEEMod Defaults

Energy Use - Title 24 Electricity and Natural Gas values revised for compliance with 2019 California Energy Code.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Water Mitigation - Outdoor water conservation from xeriscaping

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	18.00	26.00
tblConstructionPhase	NumDays	230.00	275.00
tblConstructionPhase	NumDays	8.00	13.00
tblConstructionPhase	NumDays	18.00	26.00
tblConstructionPhase	NumDays	5.00	8.00
tblEnergyUse	T24E	772.17	540.52
tblEnergyUse	T24NG	8,764.08	6,134.85
tblGrading	AcresOfGrading	6.50	4.00
tblLandUse	LandUseSquareFeet	105,000.00	48,380.00
tblLandUse	LotAcreage	6.56	4.69
tblVehicleTrips	WD_TR	2.74	2.67

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1662	42.4734	22.1007		18.2675	2.1986	20.4661	9.9840	2.0227	12.0068						3,892.8904
2021	11.9321	18.6536	19.0581		0.9199	0.9656	1.8856	0.2456	0.9078	1.1534						3,585.0003
Maximum	**11.9321**	**42.4734**	**22.1007**		**18.2675**	**2.1986**	**20.4661**	**9.9840**	**2.0227**	**12.0068**						**3,892.8904**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1662	42.4734	22.1007		18.2675	2.1986	20.4661	9.9840	2.0227	12.0068						3,892.8904
2021	11.9321	18.6536	19.0581		0.9199	0.9656	1.8856	0.2456	0.9078	1.1534						3,585.0003
Maximum	**11.9321**	**42.4734**	**22.1007**		**18.2675**	**2.1986**	**20.4661**	**9.9840**	**2.0227**	**12.0068**						**3,892.8904**

Solano Senior Housing - Riverside-South Coast County, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.8166	2.2786	62.0699			8.0687	8.0687		8.0687	8.0687						2,982.7202
Energy	0.0377	0.3225	0.1372			0.0261	0.0261		0.0261	0.0261						414.1498
Mobile	0.4463	3.7888	5.4354		2.0430	0.0180	2.0610	0.5466	0.0169	0.5635						2,587.1917
Total	**29.3006**	**6.3899**	**67.6425**		**2.0430**	**8.1128**	**10.1558**	**0.5466**	**8.1116**	**8.6582**						**5,984.0617**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.8166	2.2786	62.0699			8.0687	8.0687		8.0687	8.0687						2,982.7202
Energy	0.0377	0.3225	0.1372			0.0261	0.0261		0.0261	0.0261						414.1498
Mobile	0.4463	3.7888	5.4354		2.0430	0.0180	2.0610	0.5466	0.0169	0.5635						2,587.1917
Total	**29.3006**	**6.3899**	**67.6425**		**2.0430**	**8.1128**	**10.1558**	**0.5466**	**8.1116**	**8.6582**						**5,984.0617**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/3/2020	8/12/2020	5	8	
2	Grading	Grading	8/13/2020	8/31/2020	5	13	
3	Building Construction	Building Construction	9/1/2020	9/20/2021	5	275	
4	Paving	Paving	9/21/2021	10/26/2021	5	26	
5	Architectural Coating	Architectural Coating	10/27/2021	12/1/2021	5	26	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 97,970; Residential Outdoor: 32,657; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Solano Senior Housing - Riverside-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	76.00	11.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307						0.0000
Off-Road	4.0765	42.4173	21.5136			2.1974	2.1974		2.0216	2.0216						3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**		**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**						**3,714.8975**

3.2 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0897	0.0560	0.5871		0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545						177.9929
Total	**0.0897**	**0.0560**	**0.5871**		**0.2012**	**1.2200e-003**	**0.2024**	**0.0534**	**1.1200e-003**	**0.0545**						**177.9929**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307						0.0000
Off-Road	4.0765	42.4173	21.5136			2.1974	2.1974		2.0216	2.0216						3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**		**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**						**3,714.8975**

3.2 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0897	0.0560	0.5871		0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545						177.9929
Total	**0.0897**	**0.0560**	**0.5871**		**0.2012**	**1.2200e-003**	**0.2024**	**0.0534**	**1.1200e-003**	**0.0545**						**177.9929**

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3484	0.0000	6.3484	3.3455	0.0000	3.3455						0.0000
Off-Road	2.4288	26.3859	16.0530			1.2734	1.2734		1.1716	1.1716						2,895.7106
Total	**2.4288**	**26.3859**	**16.0530**		**6.3484**	**1.2734**	**7.6218**	**3.3455**	**1.1716**	**4.5170**						**2,895.7106**

3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0748	0.0467	0.4893		0.1677	1.0200e-003	0.1687	0.0445	9.3000e-004	0.0454						148.3274
Total	**0.0748**	**0.0467**	**0.4893**		**0.1677**	**1.0200e-003**	**0.1687**	**0.0445**	**9.3000e-004**	**0.0454**						**148.3274**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3484	0.0000	6.3484	3.3455	0.0000	3.3455						0.0000
Off-Road	2.4288	26.3859	16.0530			1.2734	1.2734		1.1716	1.1716						2,895.7106
Total	**2.4288**	**26.3859**	**16.0530**		**6.3484**	**1.2734**	**7.6218**	**3.3455**	**1.1716**	**4.5170**						**2,895.7106**

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0748	0.0467	0.4893		0.1677	1.0200e-003	0.1687	0.0445	9.3000e-004	0.0454						148.3274
Total	**0.0748**	**0.0467**	**0.4893**		**0.1677**	**1.0200e-003**	**0.1687**	**0.0445**	**9.3000e-004**	**0.0454**						**148.3274**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485			1.1171	1.1171		1.0503	1.0503						2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**			**1.1171**	**1.1171**		**1.0503**	**1.0503**						**2,568.6345**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0323	1.1259	0.2424		0.0704	6.5100e-003	0.0770	0.0203	6.2300e-003	0.0265						292.1791
Worker	0.3788	0.2366	2.4789		0.8495	5.1400e-003	0.8546	0.2253	4.7400e-003	0.2300						751.5256
Total	**0.4111**	**1.3625**	**2.7214**		**0.9199**	**0.0117**	**0.9316**	**0.2456**	**0.0110**	**0.2565**						**1,043.7047**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485			1.1171	1.1171		1.0503	1.0503						2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**			**1.1171**	**1.1171**		**1.0503**	**1.0503**						**2,568.6345**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0323	1.1259	0.2424		0.0704	6.5100e-003	0.0770	0.0203	6.2300e-003	0.0265						292.1791
Worker	0.3788	0.2366	2.4789		0.8495	5.1400e-003	0.8546	0.2253	4.7400e-003	0.2300						751.5256
Total	**0.4111**	**1.3625**	**2.7214**		**0.9199**	**0.0117**	**0.9316**	**0.2456**	**0.0110**	**0.2565**						**1,043.7047**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752			0.9586	0.9586		0.9013	0.9013						2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**			**0.9586**	**0.9586**		**0.9013**	**0.9013**						**2,568.7643**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0273	1.0092	0.2148		0.0704	1.9900e-003	0.0724	0.0203	1.9100e-003	0.0222						289.8695
Worker	0.3536	0.2123	2.2681		0.8495	5.0100e-003	0.8545	0.2253	4.6100e-003	0.2299						726.3665
Total	**0.3809**	**1.2215**	**2.4829**		**0.9199**	**7.0000e-003**	**0.9269**	**0.2456**	**6.5200e-003**	**0.2521**						**1,016.2360**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752			0.9586	0.9586		0.9013	0.9013						2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**			**0.9586**	**0.9586**		**0.9013**	**0.9013**						**2,568.7643**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0273	1.0092	0.2148		0.0704	1.9900e-003	0.0724	0.0203	1.9100e-003	0.0222						289.8695
Worker	0.3536	0.2123	2.2681		0.8495	5.0100e-003	0.8545	0.2253	4.6100e-003	0.2299						726.3665
Total	**0.3809**	**1.2215**	**2.4829**		**0.9199**	**7.0000e-003**	**0.9269**	**0.2456**	**6.5200e-003**	**0.2521**						**1,016.2360**

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603			0.5788	0.5788		0.5342	0.5342						1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**1.0940**	**10.8399**	**12.2603**			**0.5788**	**0.5788**		**0.5342**	**0.5342**						**1,818.7270**

3.5 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0931	0.0559	0.5969		0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605						191.1491
Total	**0.0931**	**0.0559**	**0.5969**		**0.2236**	**1.3200e-003**	**0.2249**	**0.0593**	**1.2100e-003**	**0.0605**						**191.1491**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603			0.5788	0.5788		0.5342	0.5342						1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**1.0940**	**10.8399**	**12.2603**			**0.5788**	**0.5788**		**0.5342**	**0.5342**						**1,818.7270**

3.5 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0931	0.0559	0.5969		0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605						191.1491
Total	**0.0931**	**0.0559**	**0.5969**		**0.2236**	**1.3200e-003**	**0.2249**	**0.0593**	**1.2100e-003**	**0.0605**						**191.1491**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.6434					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2189	1.5268	1.8176			0.0941	0.0941		0.0941	0.0941						281.9309
Total	**11.8623**	**1.5268**	**1.8176**			**0.0941**	**0.0941**		**0.0941**	**0.0941**						**281.9309**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0698	0.0419	0.4476		0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454						143.3618
Total	**0.0698**	**0.0419**	**0.4476**		**0.1677**	**9.9000e-004**	**0.1687**	**0.0445**	**9.1000e-004**	**0.0454**						**143.3618**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.6434					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2189	1.5268	1.8176			0.0941	0.0941		0.0941	0.0941						281.9309
Total	**11.8623**	**1.5268**	**1.8176**			**0.0941**	**0.0941**		**0.0941**	**0.0941**						**281.9309**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0698	0.0419	0.4476		0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454						143.3618
Total	**0.0698**	**0.0419**	**0.4476**		**0.1677**	**9.9000e-004**	**0.1687**	**0.0445**	**9.1000e-004**	**0.0454**						**143.3618**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4463	3.7888	5.4354		2.0430	0.0180	2.0610	0.5466	0.0169	0.5635						2,587.1917
Unmitigated	0.4463	3.7888	5.4354		2.0430	0.0180	2.0610	0.5466	0.0169	0.5635						2,587.1917

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Congregate Care (Assisted Living)	280.35	231.00	256.20	922,118	922,118
Total	280.35	231.00	256.20	922,118	922,118

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Congregate Care (Assisted	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Congregate Care (Assisted Living)	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0377	0.3225	0.1372			0.0261	0.0261		0.0261	0.0261						414.1498
NaturalGas Unmitigated	0.0377	0.3225	0.1372			0.0261	0.0261		0.0261	0.0261						414.1498

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Congregate Care (Assisted Living)	3499.48	0.0377	0.3225	0.1372			0.0261	0.0261		0.0261	0.0261						414.1498
Total		**0.0377**	**0.3225**	**0.1372**			**0.0261**	**0.0261**		**0.0261**	**0.0261**						**414.1498**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Congregate Care (Assisted Living)	3.49948	0.0377	0.3225	0.1372			0.0261	0.0261		0.0261	0.0261						414.1498
Total		**0.0377**	**0.3225**	**0.1372**			**0.0261**	**0.0261**		**0.0261**	**0.0261**						**414.1498**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	28.8166	2.2786	62.0699			8.0687	8.0687		8.0687	8.0687						2,982.7202
Unmitigated	28.8166	2.2786	62.0699			8.0687	8.0687		8.0687	8.0687						2,982.7202

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0829					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.9579					0.0000	0.0000		0.0000	0.0000						0.0000
Hearth	27.5138	2.1786	53.3979			8.0208	8.0208		8.0208	8.0208						2,966.7460
Landscaping	0.2619	0.1000	8.6720			0.0479	0.0479		0.0479	0.0479						15.9742
Total	**28.8166**	**2.2786**	**62.0699**			**8.0687**	**8.0687**		**8.0687**	**8.0687**						**2,982.7202**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0829					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.9579					0.0000	0.0000		0.0000	0.0000						0.0000
Hearth	27.5138	2.1786	53.3979			8.0208	8.0208		8.0208	8.0208						2,966.7460
Landscaping	0.2619	0.1000	8.6720			0.0479	0.0479		0.0479	0.0479						15.9742
Total	**28.8166**	**2.2786**	**62.0699**			**8.0687**	**8.0687**		**8.0687**	**8.0687**						**2,982.7202**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Solano Senior Housing

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Congregate Care (Assisted Living)	105.00	Dwelling Unit	4.69	48,380.00	300

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Climate zone 10 based on 92591 zip code. Assumes construction would start in early August 2020 and first year of operation would be 2022.

Land Use - Project entails construction of a 48,380 Assisted Living Facility of 105 dwelling units on 4.69-acre parcel

Construction Phase - Assumes construction would occur Monday through Friday over a 14-month period starting in early August 2020. No demolition as a part of the project.

Off-road Equipment - Assumes CalEEMod defaults.

Vehicle Trips - Weekday trip rates derived from ITE Land Uses 254 and 255.

Woodstoves - CalEEMod defaults.

Area Coating - Consistent with SCAQMD Rule 1113

Landscape Equipment - Assumes CalEEMod Defaults

Energy Use - Title 24 Electricity and Natural Gas values revised for compliance with 2019 California Energy Code.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Water Mitigation - Outdoor water conservation from xeriscaping

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	18.00	26.00
tblConstructionPhase	NumDays	230.00	275.00
tblConstructionPhase	NumDays	8.00	13.00
tblConstructionPhase	NumDays	18.00	26.00
tblConstructionPhase	NumDays	5.00	8.00
tblEnergyUse	T24E	772.17	540.52
tblEnergyUse	T24NG	8,764.08	6,134.85
tblGrading	AcresOfGrading	6.50	4.00
tblLandUse	LandUseSquareFeet	105,000.00	48,380.00
tblLandUse	LotAcreage	6.56	4.69
tblVehicleTrips	WD_TR	2.74	2.67

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1429	1.2470	1.0624		0.1552	0.0667	0.2219	0.0726	0.0624	0.1350						177.3403
2021	0.3810	1.9084	1.9893		0.0896	0.0991	0.1887	0.0239	0.0931	0.1170						335.0464
Maximum	**0.3810**	**1.9084**	**1.9893**		**0.1552**	**0.0991**	**0.2219**	**0.0726**	**0.0931**	**0.1350**						**335.0464**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1429	1.2470	1.0624		0.1552	0.0667	0.2219	0.0726	0.0624	0.1350						177.3402
2021	0.3810	1.9084	1.9893		0.0896	0.0991	0.1887	0.0239	0.0931	0.1170						335.0461
Maximum	**0.3810**	**1.9084**	**1.9893**		**0.1552**	**0.0991**	**0.2219**	**0.0726**	**0.0931**	**0.1350**						**335.0461**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**8-3-2020**	**11-2-2020**	0.8823	0.8823
2	**11-3-2020**	**2-2-2021**	0.7331	0.7331
3	**2-3-2021**	**5-2-2021**	0.6655	0.6655
4	**5-3-2021**	**8-2-2021**	0.6881	0.6881
5	**8-3-2021**	**9-30-2021**	0.4096	0.4096
		Highest	0.8823	0.8823

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	0.5666	0.0397	1.7515			0.1063	0.1063		0.1063	0.1063						35.4538
Energy	6.8900e-003	0.0589	0.0251			4.7600e-003	4.7600e-003		4.7600e-003	4.7600e-003						214.1501
Mobile	0.0783	0.6754	0.9810		0.3521	3.1300e-003	0.3552	0.0943	2.9300e-003	0.0973						420.4357
Waste						0.0000	0.0000		0.0000	0.0000						48.1830
Water						0.0000	0.0000		0.0000	0.0000						53.1178
Total	**0.6518**	**0.7740**	**2.7576**		**0.3521**	**0.1141**	**0.4662**	**0.0943**	**0.1139**	**0.2083**						**771.3403**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.5666	0.0397	1.7515			0.1063	0.1063		0.1063	0.1063						35.4538
Energy	6.8900e-003	0.0589	0.0251			4.7600e-003	4.7600e-003		4.7600e-003	4.7600e-003						214.1501
Mobile	0.0783	0.6754	0.9810		0.3521	3.1300e-003	0.3552	0.0943	2.9300e-003	0.0973						420.4357
Waste						0.0000	0.0000		0.0000	0.0000						48.1830
Water						0.0000	0.0000		0.0000	0.0000						52.1831
Total	**0.6518**	**0.7740**	**2.7576**		**0.3521**	**0.1141**	**0.4662**	**0.0943**	**0.1139**	**0.2083**						**770.4056**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.12**

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	8/3/2020	8/12/2020	5	8	
2	Grading	Grading	8/13/2020	8/31/2020	5	13	
3	Building Construction	Building Construction	9/1/2020	9/20/2021	5	275	
4	Paving	Paving	9/21/2021	10/26/2021	5	26	
5	Architectural Coating	Architectural Coating	10/27/2021	12/1/2021	5	26	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 97,970; Residential Outdoor: 32,657; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

<u>OffRoad Equipment</u>

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	76.00	11.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0723	0.0000	0.0723	0.0397	0.0000	0.0397						0.0000
Off-Road	0.0163	0.1697	0.0861			8.7900e-003	8.7900e-003		8.0900e-003	8.0900e-003						13.4804
Total	**0.0163**	**0.1697**	**0.0861**		**0.0723**	**8.7900e-003**	**0.0811**	**0.0397**	**8.0900e-003**	**0.0478**						**13.4804**

3.2 Site Preparation - 2020

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
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	3.3000e-004	2.3000e-004	2.4800e-003		7.9000e-004	0.0000	8.0000e-004	2.1000e-004	0.0000	2.1000e-004						0.6625
Total	**3.3000e-004**	**2.3000e-004**	**2.4800e-003**		**7.9000e-004**	**0.0000**	**8.0000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**						**0.6625**

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					0.0723	0.0000	0.0723	0.0397	0.0000	0.0397						0.0000
Off-Road	0.0163	0.1697	0.0861			8.7900e-003	8.7900e-003		8.0900e-003	8.0900e-003						13.4804
Total	**0.0163**	**0.1697**	**0.0861**		**0.0723**	**8.7900e-003**	**0.0811**	**0.0397**	**8.0900e-003**	**0.0478**						**13.4804**

3.2 Site Preparation - 2020

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
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	3.3000e-004	2.3000e-004	2.4800e-003		7.9000e-004	0.0000	8.0000e-004	2.1000e-004	0.0000	2.1000e-004						0.6625
Total	**3.3000e-004**	**2.3000e-004**	**2.4800e-003**		**7.9000e-004**	**0.0000**	**8.0000e-004**	**2.1000e-004**	**0.0000**	**2.1000e-004**						**0.6625**

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0413	0.0000	0.0413	0.0218	0.0000	0.0218						0.0000
Off-Road	0.0158	0.1715	0.1043			8.2800e-003	8.2800e-003		7.6200e-003	7.6200e-003						17.0751
Total	**0.0158**	**0.1715**	**0.1043**		**0.0413**	**8.2800e-003**	**0.0495**	**0.0218**	**7.6200e-003**	**0.0294**						**17.0751**

3.3 Grading - 2020

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
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	4.5000e-004	3.1000e-004	3.3500e-003		1.0700e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004						0.8972
Total	**4.5000e-004**	**3.1000e-004**	**3.3500e-003**		**1.0700e-003**	**1.0000e-005**	**1.0800e-003**	**2.8000e-004**	**1.0000e-005**	**2.9000e-004**						**0.8972**

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					0.0413	0.0000	0.0413	0.0218	0.0000	0.0218						0.0000
Off-Road	0.0158	0.1715	0.1043			8.2800e-003	8.2800e-003		7.6200e-003	7.6200e-003						17.0751
Total	**0.0158**	**0.1715**	**0.1043**		**0.0413**	**8.2800e-003**	**0.0495**	**0.0218**	**7.6200e-003**	**0.0294**						**17.0751**

3.3 Grading - 2020

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
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	4.5000e-004	3.1000e-004	3.3500e-003		1.0700e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004						0.8972
Total	**4.5000e-004**	**3.1000e-004**	**3.3500e-003**		**1.0700e-003**	**1.0000e-005**	**1.0800e-003**	**2.8000e-004**	**1.0000e-005**	**2.9000e-004**						**0.8972**

3.4 Building Construction - 2020

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	0.0933	0.8442	0.7413			0.0492	0.0492		0.0462	0.0462						102.5299
Total	**0.0933**	**0.8442**	**0.7413**			**0.0492**	**0.0492**		**0.0462**	**0.0462**						**102.5299**

3.4 Building Construction - 2020

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
Vendor	1.3800e-003	0.0503	9.8500e-003		3.0600e-003	2.8000e-004	3.3400e-003	8.8000e-004	2.7000e-004	1.1500e-003						11.9248
Worker	0.0154	0.0108	0.1150		0.0368	2.3000e-004	0.0370	9.7600e-003	2.1000e-004	9.9700e-003						30.7704
Total	**0.0168**	**0.0611**	**0.1248**		**0.0398**	**5.1000e-004**	**0.0403**	**0.0106**	**4.8000e-004**	**0.0111**						**42.6952**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0933	0.8442	0.7413			0.0492	0.0492		0.0462	0.0462						102.5298
Total	**0.0933**	**0.8442**	**0.7413**			**0.0492**	**0.0492**		**0.0462**	**0.0462**						**102.5298**

3.4 Building Construction - 2020

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
Vendor	1.3800e-003	0.0503	9.8500e-003		3.0600e-003	2.8000e-004	3.3400e-003	8.8000e-004	2.7000e-004	1.1500e-003						11.9248
Worker	0.0154	0.0108	0.1150		0.0368	2.3000e-004	0.0370	9.7600e-003	2.1000e-004	9.9700e-003						30.7704
Total	**0.0168**	**0.0611**	**0.1248**		**0.0398**	**5.1000e-004**	**0.0403**	**0.0106**	**4.8000e-004**	**0.0111**						**42.6952**

3.4 Building Construction - 2021

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	0.1777	1.6299	1.5498			0.0896	0.0896		0.0843	0.0843						217.8871
Total	**0.1777**	**1.6299**	**1.5498**			**0.0896**	**0.0896**		**0.0843**	**0.0843**						**217.8871**

3.4 Building Construction - 2021

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
Vendor	2.4500e-003	0.0959	0.0185		6.5000e-003	1.8000e-004	6.6800e-003	1.8700e-003	1.8000e-004	2.0500e-003						25.1405
Worker	0.0305	0.0205	0.2237		0.0781	4.7000e-004	0.0786	0.0207	4.3000e-004	0.0212						63.1982
Total	**0.0329**	**0.1164**	**0.2422**		**0.0846**	**6.5000e-004**	**0.0853**	**0.0226**	**6.1000e-004**	**0.0232**						**88.3387**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1777	1.6299	1.5498			0.0896	0.0896		0.0843	0.0843						217.8869
Total	**0.1777**	**1.6299**	**1.5498**			**0.0896**	**0.0896**		**0.0843**	**0.0843**						**217.8869**

3.4 Building Construction - 2021

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
Vendor	2.4500e-003	0.0959	0.0185		6.5000e-003	1.8000e-004	6.6800e-003	1.8700e-003	1.8000e-004	2.0500e-003						25.1405
Worker	0.0305	0.0205	0.2237		0.0781	4.7000e-004	0.0786	0.0207	4.3000e-004	0.0212						63.1982
Total	**0.0329**	**0.1164**	**0.2422**		**0.0846**	**6.5000e-004**	**0.0853**	**0.0226**	**6.1000e-004**	**0.0232**						**88.3387**

3.5 Paving - 2021

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	0.0142	0.1409	0.1594			7.5200e-003	7.5200e-003		6.9500e-003	6.9500e-003						21.4490
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.0142**	**0.1409**	**0.1594**			**7.5200e-003**	**7.5200e-003**		**6.9500e-003**	**6.9500e-003**						**21.4490**

3.5 Paving - 2021

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
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	1.1100e-003	7.5000e-004	8.1800e-003		2.8600e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.7000e-004						2.3124
Total	**1.1100e-003**	**7.5000e-004**	**8.1800e-003**		**2.8600e-003**	**2.0000e-005**	**2.8700e-003**	**7.6000e-004**	**2.0000e-005**	**7.7000e-004**						**2.3124**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0142	0.1409	0.1594			7.5200e-003	7.5200e-003		6.9500e-003	6.9500e-003						21.4490
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**0.0142**	**0.1409**	**0.1594**			**7.5200e-003**	**7.5200e-003**		**6.9500e-003**	**6.9500e-003**						**21.4490**

3.5 Paving - 2021

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
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	1.1100e-003	7.5000e-004	8.1800e-003		2.8600e-003	2.0000e-005	2.8700e-003	7.6000e-004	2.0000e-005	7.7000e-004						2.3124
Total	**1.1100e-003**	**7.5000e-004**	**8.1800e-003**		**2.8600e-003**	**2.0000e-005**	**2.8700e-003**	**7.6000e-004**	**2.0000e-005**	**7.7000e-004**						**2.3124**

3.6 Architectural Coating - 2021

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	0.1514					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	2.8500e-003	0.0199	0.0236			1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003						3.3249
Total	**0.1542**	**0.0199**	**0.0236**			**1.2200e-003**	**1.2200e-003**		**1.2200e-003**	**1.2200e-003**						**3.3249**

3.6 Architectural Coating - 2021

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
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	8.4000e-004	5.6000e-004	6.1400e-003		2.1400e-003	1.0000e-005	2.1600e-003	5.7000e-004	1.0000e-005	5.8000e-004						1.7343
Total	**8.4000e-004**	**5.6000e-004**	**6.1400e-003**		**2.1400e-003**	**1.0000e-005**	**2.1600e-003**	**5.7000e-004**	**1.0000e-005**	**5.8000e-004**						**1.7343**

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	0.1514					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	2.8500e-003	0.0199	0.0236			1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003						3.3249
Total	**0.1542**	**0.0199**	**0.0236**			**1.2200e-003**	**1.2200e-003**		**1.2200e-003**	**1.2200e-003**						**3.3249**

3.6 Architectural Coating - 2021

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
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	8.4000e-004	5.6000e-004	6.1400e-003		2.1400e-003	1.0000e-005	2.1600e-003	5.7000e-004	1.0000e-005	5.8000e-004						1.7343
Total	**8.4000e-004**	**5.6000e-004**	**6.1400e-003**		**2.1400e-003**	**1.0000e-005**	**2.1600e-003**	**5.7000e-004**	**1.0000e-005**	**5.8000e-004**						**1.7343**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0783	0.6754	0.9810		0.3521	3.1300e-003	0.3552	0.0943	2.9300e-003	0.0973						420.4357
Unmitigated	0.0783	0.6754	0.9810		0.3521	3.1300e-003	0.3552	0.0943	2.9300e-003	0.0973						420.4357

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Congregate Care (Assisted Living)	280.35	231.00	256.20	922,118	922,118
Total	280.35	231.00	256.20	922,118	922,118

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Congregate Care (Assisted	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Congregate Care (Assisted Living)	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000						145.5829
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000						145.5829
NaturalGas Mitigated	6.8900e-003	0.0589	0.0251			4.7600e-003	4.7600e-003		4.7600e-003	4.7600e-003						68.5671
NaturalGas Unmitigated	6.8900e-003	0.0589	0.0251			4.7600e-003	4.7600e-003		4.7600e-003	4.7600e-003						68.5671

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					
Congregate Care (Assisted Living)	1.27731e+006	6.8900e-003	0.0589	0.0251			4.7600e-003	4.7600e-003		4.7600e-003	4.7600e-003						68.5671
Total		**6.8900e-003**	**0.0589**	**0.0251**			**4.7600e-003**	**4.7600e-003**		**4.7600e-003**	**4.7600e-003**						**68.5671**

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					
Congregate Care (Assisted Living)	1.27731e+006	6.8900e-003	0.0589	0.0251			4.7600e-003	4.7600e-003		4.7600e-003	4.7600e-003						68.5671
Total		**6.8900e-003**	**0.0589**	**0.0251**			**4.7600e-003**	**4.7600e-003**		**4.7600e-003**	**4.7600e-003**						**68.5671**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Congregate Care (Assisted Living)	455286				145.5829
Total					**145.5829**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Congregate Care (Assisted Living)	455286				145.5829
Total					**145.5829**

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	0.5666	0.0397	1.7515			0.1063	0.1063		0.1063	0.1063						35.4538
Unmitigated	0.5666	0.0397	1.7515			0.1063	0.1063		0.1063	0.1063						35.4538

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	0.0151					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.1748					0.0000	0.0000		0.0000	0.0000						0.0000
Hearth	0.3439	0.0272	0.6675			0.1003	0.1003		0.1003	0.1003						33.6423
Landscaping	0.0327	0.0125	1.0840			5.9900e-003	5.9900e-003		5.9900e-003	5.9900e-003						1.8114
Total	**0.5666**	**0.0397**	**1.7515**			**0.1063**	**0.1063**		**0.1063**	**0.1063**						**35.4538**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0151					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.1748					0.0000	0.0000		0.0000	0.0000						0.0000
Hearth	0.3439	0.0272	0.6675			0.1003	0.1003		0.1003	0.1003						33.6423
Landscaping	0.0327	0.0125	1.0840			5.9900e-003	5.9900e-003		5.9900e-003	5.9900e-003						1.8114
Total	**0.5666**	**0.0397**	**1.7515**			**0.1063**	**0.1063**		**0.1063**	**0.1063**						**35.4538**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				52.1831
Unmitigated				53.1178

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Congregate Care (Assisted Living)	6.84117 / 4.31291				53.1178
Total					**53.1178**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Congregate Care (Assisted Living)	6.84117 / 4.04983				52.1831
Total					**52.1831**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				48.1830
Unmitigated				48.1830

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Congregate Care (Assisted Living)	95.81				48.1830
Total					**48.1830**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Congregate Care (Assisted Living)	95.81				48.1830
Total					**48.1830**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Solano Senior Housing

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Congregate Care (Assisted Living)	105.00	Dwelling Unit	4.69	48,380.00	300

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Climate zone 10 based on 92591 zip code. Assumes construction would start in early August 2020 and first year of operation would be 2022.

Land Use - Project entails construction of a 48,380 Assisted Living Facility of 105 dwelling units on 4.69-acre parcel

Construction Phase - Assumes construction would occur Monday through Friday over a 14-month period starting in early August 2020. No demolition as a part of the project.

Off-road Equipment - Assumes CalEEMod defaults.

Vehicle Trips - Weekday trip rates derived from ITE Land Uses 254 and 255.

Woodstoves - CalEEMod defaults.

Area Coating - Consistent with SCAQMD Rule 1113

Landscape Equipment - Assumes CalEEMod Defaults

Energy Use - Title 24 Electricity and Natural Gas values revised for compliance with 2019 California Energy Code.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Water Mitigation - Outdoor water conservation from xeriscaping

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	18.00	26.00
tblConstructionPhase	NumDays	230.00	275.00
tblConstructionPhase	NumDays	8.00	13.00
tblConstructionPhase	NumDays	18.00	26.00
tblConstructionPhase	NumDays	5.00	8.00
tblEnergyUse	T24E	772.17	540.52
tblEnergyUse	T24NG	8,764.08	6,134.85
tblGrading	AcresOfGrading	6.50	4.00
tblLandUse	LandUseSquareFeet	105,000.00	48,380.00
tblLandUse	LotAcreage	6.56	4.69
tblVehicleTrips	WD_TR	2.74	2.67

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1681	42.4715	22.2394		18.2675	2.1986	20.4661	9.9840	2.0227	12.0068						3,913.3116
2021	11.9334	18.6553	19.5666		0.9199	0.9656	1.8855	0.2456	0.9077	1.1533						3,679.5711
Maximum	**11.9334**	**42.4715**	**22.2394**		**18.2675**	**2.1986**	**20.4661**	**9.9840**	**2.0227**	**12.0068**						**3,913.3116**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1681	42.4715	22.2394		18.2675	2.1986	20.4661	9.9840	2.0227	12.0068						3,913.3116
2021	11.9334	18.6553	19.5666		0.9199	0.9656	1.8855	0.2456	0.9077	1.1533						3,679.5710
Maximum	**11.9334**	**42.4715**	**22.2394**		**18.2675**	**2.1986**	**20.4661**	**9.9840**	**2.0227**	**12.0068**						**3,913.3116**

Solano Senior Housing - Riverside-South Coast County, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.8166	2.2786	62.0699			8.0687	8.0687		8.0687	8.0687						2,982.7202
Energy	0.0377	0.3225	0.1372			0.0261	0.0261		0.0261	0.0261						414.1498
Mobile	0.5260	3.7899	6.2897		2.0430	0.0178	2.0608	0.5466	0.0167	0.5633						2,799.7256
Total	**29.3803**	**6.3910**	**68.4968**		**2.0430**	**8.1126**	**10.1556**	**0.5466**	**8.1115**	**8.6581**						**6,196.5956**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.8166	2.2786	62.0699			8.0687	8.0687		8.0687	8.0687						2,982.7202
Energy	0.0377	0.3225	0.1372			0.0261	0.0261		0.0261	0.0261						414.1498
Mobile	0.5260	3.7899	6.2897		2.0430	0.0178	2.0608	0.5466	0.0167	0.5633						2,799.7256
Total	**29.3803**	**6.3910**	**68.4968**		**2.0430**	**8.1126**	**10.1556**	**0.5466**	**8.1115**	**8.6581**						**6,196.5956**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/3/2020	8/12/2020	5	8	
2	Grading	Grading	8/13/2020	8/31/2020	5	13	
3	Building Construction	Building Construction	9/1/2020	9/20/2021	5	275	
4	Paving	Paving	9/21/2021	10/26/2021	5	26	
5	Architectural Coating	Architectural Coating	10/27/2021	12/1/2021	5	26	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 97,970; Residential Outdoor: 32,657; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Solano Senior Housing - Riverside-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	76.00	11.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307						0.0000
Off-Road	4.0765	42.4173	21.5136			2.1974	2.1974		2.0216	2.0216						3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**		**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**						**3,714.8975**

3.2 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0916	0.0542	0.7258		0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545						198.4141
Total	**0.0916**	**0.0542**	**0.7258**		**0.2012**	**1.2200e-003**	**0.2024**	**0.0534**	**1.1200e-003**	**0.0545**						**198.4141**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307						0.0000
Off-Road	4.0765	42.4173	21.5136			2.1974	2.1974		2.0216	2.0216						3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**		**18.0663**	**2.1974**	**20.2637**	**9.9307**	**2.0216**	**11.9523**						**3,714.8975**

3.2 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0916	0.0542	0.7258		0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545						198.4141
Total	**0.0916**	**0.0542**	**0.7258**		**0.2012**	**1.2200e-003**	**0.2024**	**0.0534**	**1.1200e-003**	**0.0545**						**198.4141**

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3484	0.0000	6.3484	3.3455	0.0000	3.3455						0.0000
Off-Road	2.4288	26.3859	16.0530			1.2734	1.2734		1.1716	1.1716						2,895.7106
Total	**2.4288**	**26.3859**	**16.0530**		**6.3484**	**1.2734**	**7.6218**	**3.3455**	**1.1716**	**4.5170**						**2,895.7106**

3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0763	0.0451	0.6048		0.1677	1.0200e-003	0.1687	0.0445	9.3000e-004	0.0454						165.3451
Total	**0.0763**	**0.0451**	**0.6048**		**0.1677**	**1.0200e-003**	**0.1687**	**0.0445**	**9.3000e-004**	**0.0454**						**165.3451**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3484	0.0000	6.3484	3.3455	0.0000	3.3455						0.0000
Off-Road	2.4288	26.3859	16.0530			1.2734	1.2734		1.1716	1.1716						2,895.7106
Total	**2.4288**	**26.3859**	**16.0530**		**6.3484**	**1.2734**	**7.6218**	**3.3455**	**1.1716**	**4.5170**						**2,895.7106**

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0763	0.0451	0.6048		0.1677	1.0200e-003	0.1687	0.0445	9.3000e-004	0.0454						165.3451
Total	**0.0763**	**0.0451**	**0.6048**		**0.1677**	**1.0200e-003**	**0.1687**	**0.0445**	**9.3000e-004**	**0.0454**						**165.3451**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485			1.1171	1.1171		1.0503	1.0503						2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**			**1.1171**	**1.1171**		**1.0503**	**1.0503**						**2,568.6345**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0307	1.1318	0.2071		0.0704	6.4400e-003	0.0769	0.0203	6.1600e-003	0.0264						303.4980
Worker	0.3868	0.2287	3.0644		0.8495	5.1400e-003	0.8546	0.2253	4.7400e-003	0.2300						837.7483
Total	**0.4174**	**1.3605**	**3.2715**		**0.9199**	**0.0116**	**0.9315**	**0.2456**	**0.0109**	**0.2565**						**1,141.2464**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485			1.1171	1.1171		1.0503	1.0503						2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**			**1.1171**	**1.1171**		**1.0503**	**1.0503**						**2,568.6345**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0307	1.1318	0.2071		0.0704	6.4400e-003	0.0769	0.0203	6.1600e-003	0.0264						303.4980
Worker	0.3868	0.2287	3.0644		0.8495	5.1400e-003	0.8546	0.2253	4.7400e-003	0.2300						837.7483
Total	**0.4174**	**1.3605**	**3.2715**		**0.9199**	**0.0116**	**0.9315**	**0.2456**	**0.0109**	**0.2565**						**1,141.2464**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752			0.9586	0.9586		0.9013	0.9013						2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**			**0.9586**	**0.9586**		**0.9013**	**0.9013**						**2,568.7643**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0257	1.0179	0.1816		0.0704	1.9400e-003	0.0724	0.0203	1.8500e-003	0.0221						301.1137
Worker	0.3603	0.2053	2.8098		0.8495	5.0100e-003	0.8545	0.2253	4.6100e-003	0.2299						809.6931
Total	**0.3860**	**1.2232**	**2.9914**		**0.9199**	**6.9500e-003**	**0.9269**	**0.2456**	**6.4600e-003**	**0.2520**						**1,110.8068**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752			0.9586	0.9586		0.9013	0.9013						2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**			**0.9586**	**0.9586**		**0.9013**	**0.9013**						**2,568.7643**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0257	1.0179	0.1816		0.0704	1.9400e-003	0.0724	0.0203	1.8500e-003	0.0221						301.1137
Worker	0.3603	0.2053	2.8098		0.8495	5.0100e-003	0.8545	0.2253	4.6100e-003	0.2299						809.6931
Total	**0.3860**	**1.2232**	**2.9914**		**0.9199**	**6.9500e-003**	**0.9269**	**0.2456**	**6.4600e-003**	**0.2520**						**1,110.8068**

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603			0.5788	0.5788		0.5342	0.5342						1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**1.0940**	**10.8399**	**12.2603**			**0.5788**	**0.5788**		**0.5342**	**0.5342**						**1,818.7270**

3.5 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0948	0.0540	0.7394		0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605						213.0771
Total	**0.0948**	**0.0540**	**0.7394**		**0.2236**	**1.3200e-003**	**0.2249**	**0.0593**	**1.2100e-003**	**0.0605**						**213.0771**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603			0.5788	0.5788		0.5342	0.5342						1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000						0.0000
Total	**1.0940**	**10.8399**	**12.2603**			**0.5788**	**0.5788**		**0.5342**	**0.5342**						**1,818.7270**

3.5 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0948	0.0540	0.7394		0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605						213.0771
Total	**0.0948**	**0.0540**	**0.7394**		**0.2236**	**1.3200e-003**	**0.2249**	**0.0593**	**1.2100e-003**	**0.0605**						**213.0771**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.6434					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2189	1.5268	1.8176			0.0941	0.0941		0.0941	0.0941						281.9309
Total	**11.8623**	**1.5268**	**1.8176**			**0.0941**	**0.0941**		**0.0941**	**0.0941**						**281.9309**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0711	0.0405	0.5546		0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454						159.8078
Total	**0.0711**	**0.0405**	**0.5546**		**0.1677**	**9.9000e-004**	**0.1687**	**0.0445**	**9.1000e-004**	**0.0454**						**159.8078**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.6434					0.0000	0.0000		0.0000	0.0000						0.0000
Off-Road	0.2189	1.5268	1.8176			0.0941	0.0941		0.0941	0.0941						281.9309
Total	**11.8623**	**1.5268**	**1.8176**			**0.0941**	**0.0941**		**0.0941**	**0.0941**						**281.9309**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Vendor	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	0.0711	0.0405	0.5546		0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454						159.8078
Total	**0.0711**	**0.0405**	**0.5546**		**0.1677**	**9.9000e-004**	**0.1687**	**0.0445**	**9.1000e-004**	**0.0454**						**159.8078**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5260	3.7899	6.2897		2.0430	0.0178	2.0608	0.5466	0.0167	0.5633						2,799.7256
Unmitigated	0.5260	3.7899	6.2897		2.0430	0.0178	2.0608	0.5466	0.0167	0.5633						2,799.7256

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Congregate Care (Assisted Living)	280.35	231.00	256.20	922,118	922,118
Total	280.35	231.00	256.20	922,118	922,118

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Congregate Care (Assisted	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Congregate Care (Assisted Living)	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0377	0.3225	0.1372			0.0261	0.0261		0.0261	0.0261						414.1498
NaturalGas Unmitigated	0.0377	0.3225	0.1372			0.0261	0.0261		0.0261	0.0261						414.1498

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Congregate Care (Assisted Living)	3499.48	0.0377	0.3225	0.1372			0.0261	0.0261		0.0261	0.0261						414.1498
Total		**0.0377**	**0.3225**	**0.1372**			**0.0261**	**0.0261**		**0.0261**	**0.0261**						**414.1498**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Congregate Care (Assisted Living)	3.49948	0.0377	0.3225	0.1372			0.0261	0.0261		0.0261	0.0261						414.1498
Total		**0.0377**	**0.3225**	**0.1372**			**0.0261**	**0.0261**		**0.0261**	**0.0261**						**414.1498**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	28.8166	2.2786	62.0699			8.0687	8.0687		8.0687	8.0687						2,982.7202
Unmitigated	28.8166	2.2786	62.0699			8.0687	8.0687		8.0687	8.0687						2,982.7202

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0829					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.9579					0.0000	0.0000		0.0000	0.0000						0.0000
Hearth	27.5138	2.1786	53.3979			8.0208	8.0208		8.0208	8.0208						2,966.7460
Landscaping	0.2619	0.1000	8.6720			0.0479	0.0479		0.0479	0.0479						15.9742
Total	**28.8166**	**2.2786**	**62.0699**			**8.0687**	**8.0687**		**8.0687**	**8.0687**						**2,982.7202**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0829					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.9579					0.0000	0.0000		0.0000	0.0000						0.0000
Hearth	27.5138	2.1786	53.3979			8.0208	8.0208		8.0208	8.0208						2,966.7460
Landscaping	0.2619	0.1000	8.6720			0.0479	0.0479		0.0479	0.0479						15.9742
Total	**28.8166**	**2.2786**	**62.0699**			**8.0687**	**8.0687**		**8.0687**	**8.0687**						**2,982.7202**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix B – Biological Assessment

Solana Senior Assisted Living Center Project

General Biological Resources Assessment

March 16, 2020 | GFL-01

Prepared for:

Griffin Fine Living
24005 Ventura Boulevard
Calabasas, CA 91302

Prepared by:

HELIX Environmental Planning, Inc.
16485 Laguna Canyon Road
Suite 150
Irvine, CA 92618

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Solana Senior Assisted Living Center Project

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March 16, 2020 | GFL-01

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ACRONYMS AND ABBREVIATIONS

AMSL	above mean sea level
BMPs	Best Management Practices
BUOW	Burrowing Owl
CASSA	Criteria Area Species Survey Area
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CFG Code	California Fish and Game Code
City	City of Temecula
CNDDB	California Natural Diversity Database
CNPS	California Native Plant Society
County	County of Riverside
CRPR	California Rare Plant Rank
CWA	Clean Water Act
Dudek	Dudek & Associates
EPA	Environmental Protection Agency
FESA	Federal Endangered Species Act
HANS	Habitat Acquisition and Negotiation Strategy
HCP	Habitat Conservation Plan
HELIX	HELIX Environmental Planning, Inc.
I-	Interstate
ISA	International Society of Arboriculture
LBVI	Least Bell's Vireo
LDMF	Local Development Mitigation Fee
LF	linear feet
MBTA	Migratory Bird Treaty Act
MSHCP	Western Riverside County Multiple Species Habitat Conservation Plan
NEPSSA	Narrow Endemic Plant Species Survey Area
NPPA	Native Plant Protection Act
NRCS	Natural Resources Conservation Service
OHWM	Ordinary High Water Mark
project	Solana Senior Assisted Living Center Project

ACRONYMS AND ABBREVIATIONS (cont.)

RCA	Western Riverside County Regional Conservation Authority
ROW	Right-of-Way
RPW	Relatively Permanent Water Body
RWQCB	Regional Water Quality Control Board
SSC	Species of Special Concern
TNW	Traditional Navigable Waters
Tree Ordinance	City of Temecula Heritage Tree Ordinance
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geologic Survey
WOTUS	Waters of the U.S.

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SUMMARY

The 4.70-acre Solana Senior Assisted Living Center Project (project) and adjacent 0.80-acre off-site areas (collectively, the study area) are located in the City of Temecula, Riverside County, California. The 5.5-acre study area is located within the Southwest Area Plan of the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP). The study area is not located within or adjacent to an MSHCP Criteria Area or MSHCP Conservation Area. The study area is located within the Burrowing Owl (*Athene cunicularia*; BUOW) Survey Area and supports suitable habitat for least Bell's vireo (*Vireo bellii pusillus*; LBVI). HELIX Environmental Planning, Inc. (HELIX) conducted a general biological survey, including vegetation mapping and a general habitat assessment; an MSHCP Riparian/Riverine and Vernal Pool habitat assessment; a habitat assessment and focused survey for BUOW; a focused survey for LBVI; and a jurisdictional delineation, including mapping of any MSHCP Riparian/Riverine and Vernal Pool Areas encountered on the study area.

The study area contains five vegetation communities and land uses, including mule fat scrub, southern willow scrub, non-native grassland, disturbed land, and developed land. Focused BUOW and LBVI surveys conducted on the study area were negative. The study area also supports suitable habitat for nesting migratory bird species. One sensitive plant community (southern willow scrub) was mapped on the study area, which totaled 1.70 acres. The study area supports an ephemeral drainage complex (Drainage Complex A). A total of 0.16 acre of U.S. Army Corps of Engineers (USACE)/Regional Water Quality Control Board (RWQCB) jurisdictional area waters of the U.S. (WOTUS) and 1.71 acres of California Fish and Wildlife (CDFW) jurisdictional streambed and associated riparian vegetation were mapped within Drainage Complex A. The criteria used in the Jurisdictional Delineation (JD) performed by HELIX was based on the U.S. Environmental Protection Agency (EPA) definition of WOTUS in effect at the time the JD was performed (Old Rule). However, there has been a new Ruling by EPA known as the "Navigable Waters Protection Rule: Definition of "Waters of the United States"(EPA 2020)" to define the Waters of The U.S. The Rule will not take effect until it is published in the Federal Register, which is not likely to occur until May. A copy of the summarized Rule is attached as Appendix K, albeit yet unpublished in the Federal Register. An excerpt defining the new rule is provided below:

> *"On January 23, 2020, the U.S. Environmental Protection Agency (EPA) and the Department of the Army (Army) finalized the Navigable Waters Protection Rule to define "waters of the United States" (WOTUS). For the first time, the agencies are streamlining the definition so that it includes four simple categories of jurisdictional waters, provides clear exclusions for many water features that traditionally have not been regulated, and defines terms in the regulatory text that have never been defined before. Congress, in the Clean Water Act, explicitly directed the Agencies to protect "navigable waters." The Navigable Waters Protection Rule regulates these waters and the core tributary systems that provide perennial or intermittent flow into them. The final rule fulfills Executive Order 13788 and reflects legal precedent set by key Supreme Court cases as well as robust public outreach and engagement, including pre-proposal input and comments received on the proposed rule. The final rule will become effective 60 days after publication in the Federal Register. Once effective, it replaces the rule published on October 22, 2019.*

> *The EPA Administrator, Andrew Wheeler, along with Mr. R.D. James, the Assistant Secretary of the Army for Civil Works, signed the following final rule on January 23, 2020. EPA is submitting it for publication in the Federal Register (FR)."*

It appears there are certain listed exceptions included in the New Rule that may result in the elimination of WOTUS thus eliminating USACE jurisdictional area from the project and need of a USACE Nationwide Permit. Because the project start is predicated on receiving the jurisdictional permits, the Developer has elected to apply for a Nationwide Permit based on the results of HELIX's current Jurisdictional Delineation which is based on the Old Rule.

Of the 4.71-acre project site, the project would permanently impact 0.06 acre and temporarily impact less than 0.01 acre of non-wetland USACE/RWQCB WOTUS. The project would also permanently impact 0.58 acre and temporarily impact 0.24 acre of CDFW jurisdictional streambed and associated vegetation. The Project area includes Parcel 3, which is 1.24 acres (26.33% of the total project area), and is planned as a dedicated Open Space Lot, which shall remain as a Jurisdictional Area.

MSHCP Riparian Areas were identified within the study area, which are consistent with the limits of CDFW jurisdiction. No wetlands or other special aquatic sites were observed on the study area.

Potential significant impacts were identified for BUOW (if present during the 30-day pre-construction survey), jurisdictional resources, MSHCP Riparian Areas, and nesting bird species. The project is required to comply with regulations of the MSHCP and Habitat Conservation Plan (HCP) for Stephens' kangaroo rat (*Dipodomys stephensi*).

Measures related to the following topics are proposed herein to fully mitigate potential impacts of the project: BUOW, sensitive community, jurisdictional resources and MSHCP Riparian Areas, migratory nesting bird species, compliance with MSHCP landscaping restrictions, and payment of MSHCP and Stephens' kangaroo rat HCP fees. Successful implementation of these measures would mitigate potential impacts to below a level of significance.

1.0 INTRODUCTION

1.1 PURPOSE OF THE REPORT

This report provides the City of Temecula (City; California Environmental Quality Act [CEQA] lead agency), resource agencies, and the public with current biological data to satisfy review of the proposed Solana Senior Assisted Living Center Project (project) located in northern portion of the City in Riverside County (County), California. The purpose of this report is to document the existing biological conditions on and in the immediate vicinity of the project site, and to provide an analysis of potential impacts to sensitive biological resources with respect to local, state, and federal policy. This report provides the biological resources technical documentation necessary for project review under CEQA by the City and demonstrates project consistency with the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP; Dudek and Associates [Dudek] 2003).

1.2 STUDY AREA LOCATION

The approximately 4.70-acre project site comprises four parcels with Assessor's Parcel Numbers 921-330-025, -026, -052, and -053 in the City of Temecula, Riverside County, California. The study area is generally located southeast of the Interstate (I-) 15 and I-215 interchange (Figure 1, *Regional Location*). The study area is located within Township 7 South, Range 3 West of the U.S. Geological Survey (USGS) 7.5-minute Murrieta quadrangle map (Figure 2, *USGS Topography*). Specifically, the study area is located east of the intersection of Solana Way and Margarita Road (Figure 3, *Aerial Photograph*).

The project also includes an approximately 0.80 acre of off-site areas located within the Solana Way and Via La Vida right-of-ways (ROWs). The off-site areas are located along the northwestern and southeastern project boundaries (Figure 3). For the purpose of this report, the project site and off-site areas are collectively referred to as the study area.

1.3 PROJECT DESCRIPTION

The proposed project is a senior assisted living center that consisting of one building that is designed to include residential areas to accommodate assisted living and memory support units (Figure 4, *Site Plan*). The development would also include associated facilities, such as administration, dining/activity areas, a multi-purpose room, gardens, a courtyard, and parking spaces. Primary access to the development would be via Solana Way. Adjacent road improvements are proposed within the existing Solana Way and Via La Vida ROWs.

2.0 METHODS

Project evaluation included a review of project plans; a literature review of biological resources occurring on the study area and surrounding vicinity; a general biological survey, including vegetation mapping and a general habitat assessment; a habitat assessment and focused survey for burrowing owl (*Athene cunicularia*; BUOW); focused survey for least Bell's vireo (*Vireo bellii pusillus*; LBVI); a jurisdictional delineation, including mapping of MSHCP Riparian/Riverine and Vernal Pool Areas; and an MSHCP Riparian/Riverine and Vernal Pool Resources assessment. The methods used to evaluate the biological resources present on the study area are discussed in this section.

2.1 NOMENCLATURE

Nomenclature for this report follows Baldwin et al. (2012) for plants, and the MSHCP (Dudek 2003) for vegetation community classifications, with additional vegetation community information taken from Oberbauer (2008) and Holland (1986). Animal nomenclature follows Emmel and Emmel (1973) for butterflies, Center for North American Herpetology (Taggart 2019) for reptiles and amphibians, American Ornithological Society (2019) for birds, and Baker et al. (2003) for mammals. Rare plant and sensitive animal statuses are from the California Native Plant Society's (CNPS) Inventory of Rare and Endangered Plants of California (2019) and the California Department of Fish and Wildlife's (CDFW) California Natural Diversity Database (CNDDB; California Department of Fish and Wildlife [CDFW] 2019). Rare plant species' habitats and flowering periods are from the Jepson Manual (Baldwin et al. 2012), MSHCP (Dudek 2003), CNPS (2019), and CNDDB (CDFW 2019). Soil classifications were obtained from the Natural Resources Conservation Service's (NRCS) Web Soil Survey (2019).

2.2 LITERATURE REVIEW

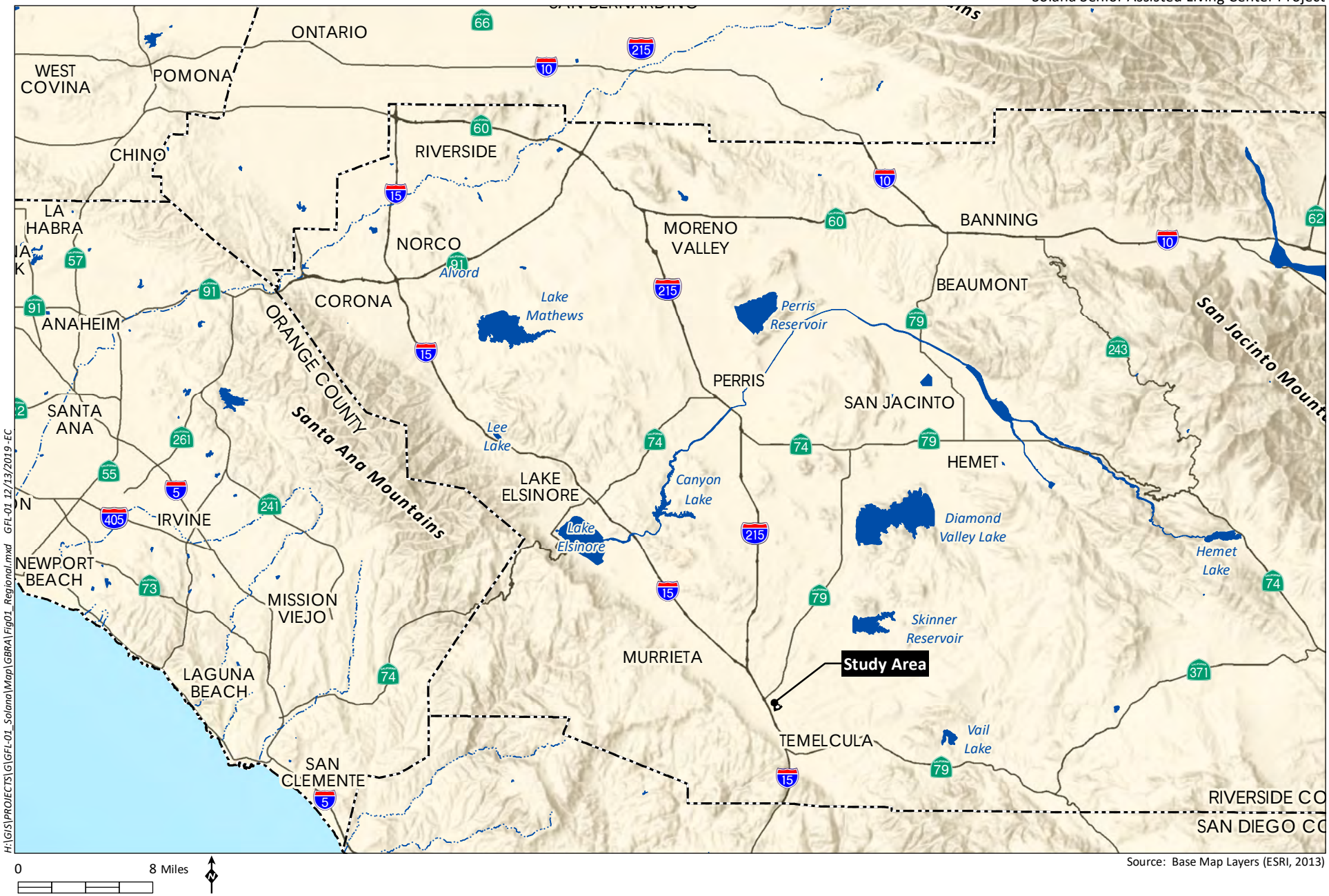
Prior to conducting the site visit, HELIX Environmental Planning, Inc. (HELIX) reviewed regional planning documents, Google Earth aerials (2019), Web Soil Survey (Natural Resources Conservation Service [NRCS] 2019), and sensitive species database records, including the Inventory of Rare and Endangered Plants of California (California Native Plant Society [CNPS] 2019), CNDDB (CDFW 2019), U.S. Fish and Wildlife Service's (USFWS) critical habitat maps (2019a). A nine-quadrangle database search was conducted on CNDDB and CNPS, which included the following quadrangles: Bachelor Mountain, Fallbrook, Lake Elsinore, Murrieta, Pechanga, Romoland, Temecula, Wildomar, and Winchester. In addition, the MSHCP (Dudek 2003) and the Regional Conservation Authority's MSHCP Information Tool (Western Riverside County Regional Conservation Authority 2019) were consulted to determine project compliance with the MSHCP.

2.3 FIELD SURVEYS

Field surveys were conducted to document the existing condition of the study area and surrounding lands. The general biological survey included vegetation mapping, during which dominant plant species were noted. A habitat assessment was also conducted on the study area to determine habitat suitability for rare plant and animal species in addition to MSHCP Riparian/Riverine Species. Focused surveys for BUOW and LBVI were conducted. A jurisdictional delineation was also conducted to determine the existing jurisdictional limits regulated by the U.S. Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), and CDFW in addition to MSHCP Riparian/Riverine Areas. A list of plant and animal species observed and/or detected during the field surveys are provided as Appendix A, *Plant Species Observed* and Appendix B, *Animal Species Observed and/or Detected*. Noted animal species were identified by direct observation, vocalizations, or the observance of scat, tracks, or other signs. However, the list of animal species identified is not necessarily a comprehensive account of all species that use the study area, as species that are nocturnal, secretive, or seasonally restricted may not have been observed.

2.3.1 General Biological Survey

A general biological survey of the study area was conducted by HELIX Biologist and Regulatory Specialist Ezekiel Cooley on April 19, 2018, in accordance with vegetation community classification described in Section 2.1.3 of the MSHCP (Dudek 2003) and with additional information from Holland (1986) and



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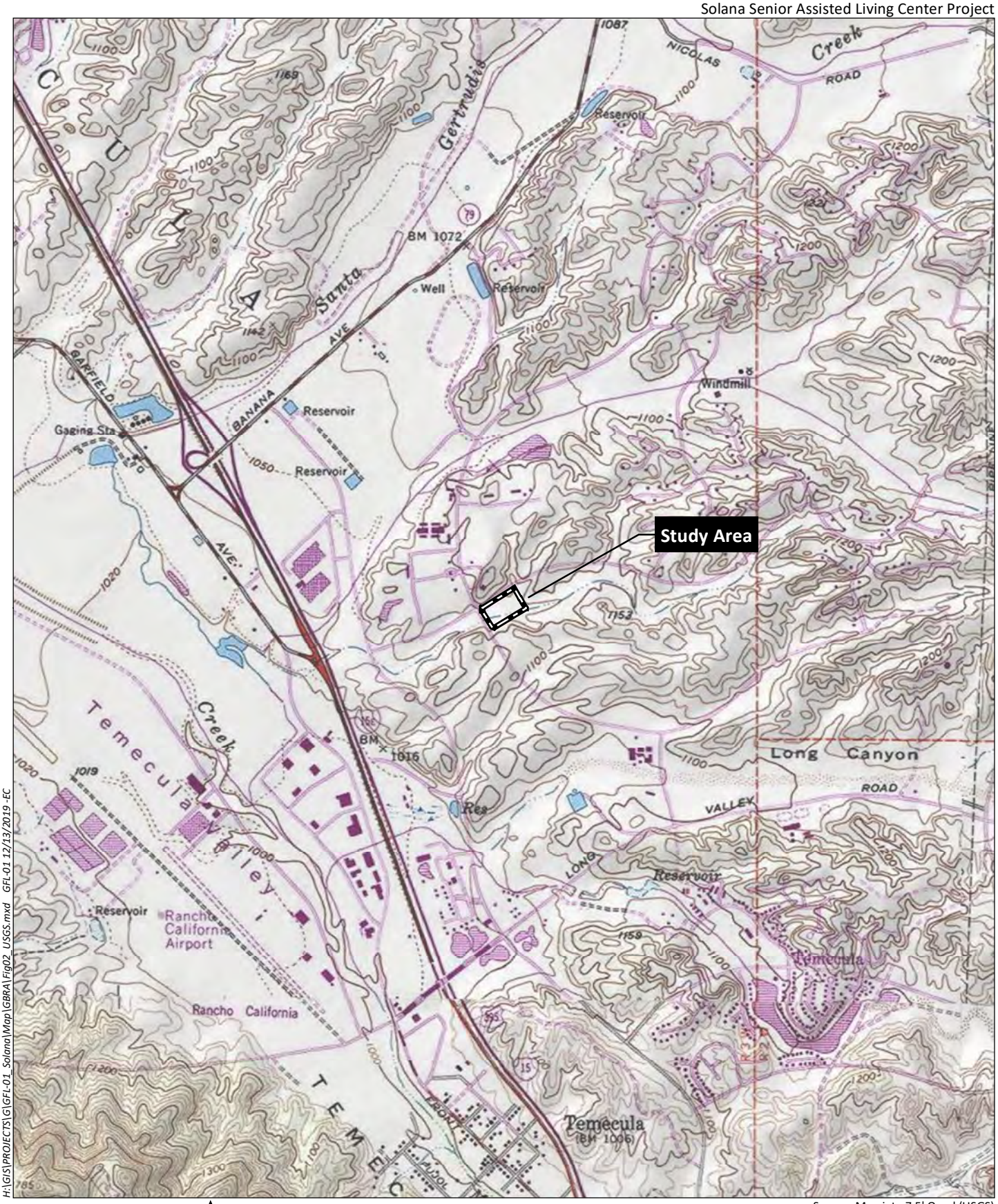
Source: Base Map Layers (ESRI, 2013)

HELIX Environmental Planning

Regional Location

Figure 1



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0 2,000 Feet

Source: Murrieta 7.5' Quad (USGS)

HELIX Environmental Planning

USGS Topography

Figure 2

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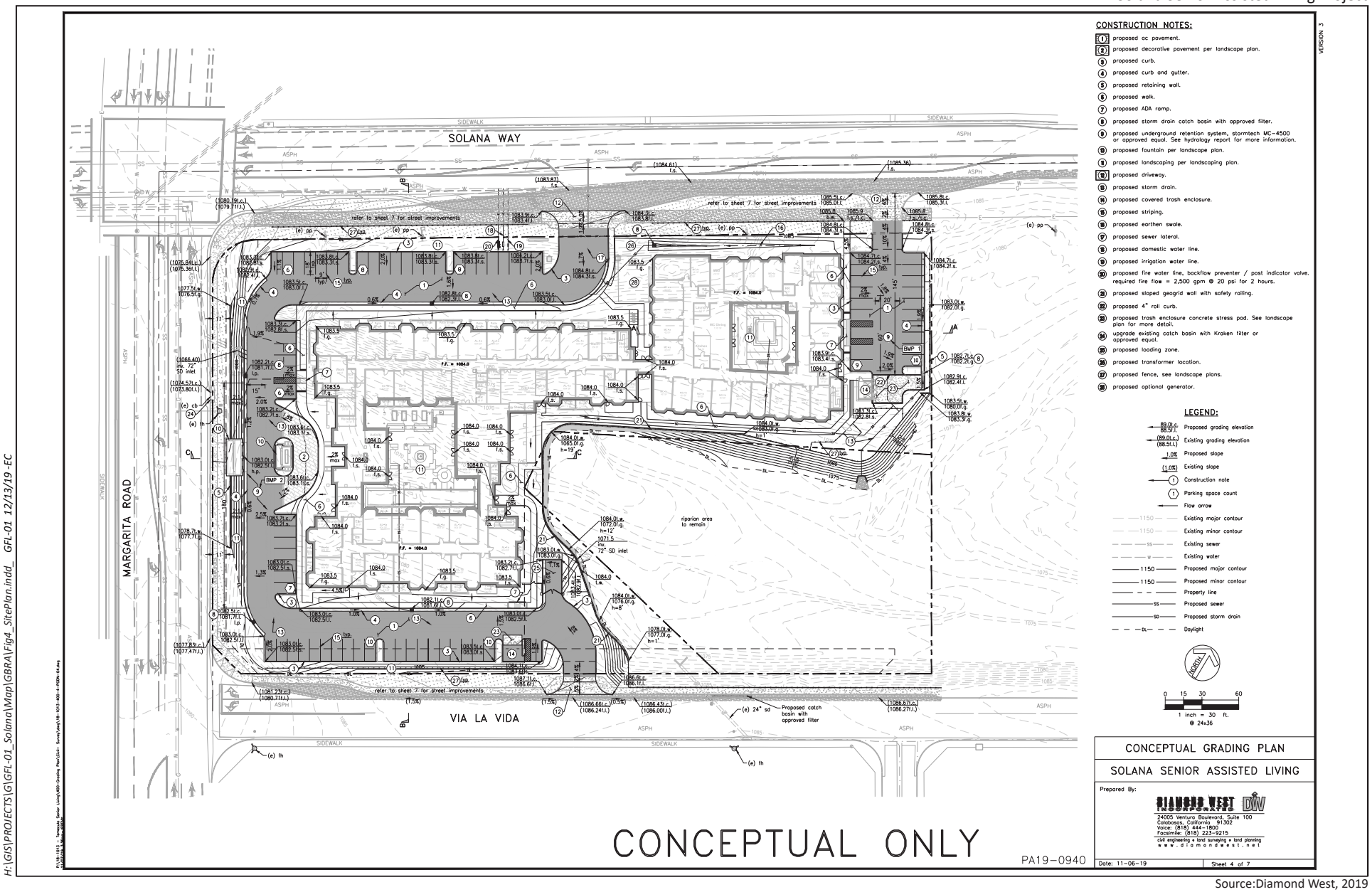
0 1,000 Feet

Source: Aerial (Riverside County, 2016)

HELIX Environmental Planning

Aerial Photograph

Figure 3



Source:Diamond West, 2019

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Site Plan

Figure 4

Oberbauer (2008). Vegetation was mapped on a 50-foot (1 inch = 50 feet) aerial photograph of the study area. Vegetation communities and land uses were mapped by HELIX to one-hundredth of an acre (0.10 acre). The entire study area was surveyed on foot with the aid of binoculars. Representative photographs of the site were taken, with select photographs included in this report as Appendix C, *Site Photographs*. Plant and animal species observed or otherwise detected were recorded in field notebooks. Animal identifications were made in the field by direct, visual observation or indirectly by detection of calls, burrows, tracks, or scat. Plant identifications were made in the field or in the lab through comparison with voucher specimens or photographs.

2.3.2 Focused Species Surveys

Burrowing Owl

The study area is located within an MSHCP BUOW Survey Area. In accordance with the County's survey protocol, a Step I-Habitat Assessment for BUOW was conducted on the study area and within a 150-meter (approximately 500-foot) buffer zone around the periphery of the study area (survey area; County of Riverside [County] 2006). Mr. Cooley completed the habitat assessment on April 19, 2018, during which potential suitable habitat for BUOW was observed.

After completing the habitat assessment, Step II surveys were conducted within the survey area. Step II surveys, which consist of a focused burrow survey (Part A) and four focused BUOW surveys (Part B), were conducted to determine whether the survey area supports suitable burrows and/or BUOWs. The focused burrow survey was conducted concurrently with the first focused BUOW survey. Since suitable burrows were observed within the survey area, three additional focused BUOW surveys were conducted. The biologist walked transects spaced no greater than 30 meters apart (approximately 100-feet) to allow for 100 percent visual coverage of all suitable habitat within the survey area. The biologist walked slowly and methodically, closely checking suitable habitat for suitable burrows, BUOW diagnostic sign (e.g., molted feathers, pellets/castings, or whitewash at or near a burrow entrance), and individual BUOWs. Inaccessible areas of the survey area were visually assessed using binoculars. The focused burrow survey and four BUOW surveys were conducted by Mr. Cooley and HELIX Biologists Amy Lee and Lauren Singleton between April 19 and August 6, 2018.

Focused surveys were also previously conducted on the study area by PCR Services Corporation (PCR) between April 27 and June 2, 2015 following the same methods described above.

Least Bell's Vireo

A focused survey for LBVI was conducted in accordance with current USFWS survey protocol (USFWS 2001). The survey consisted of eight site visits conducted by Mr. Cooley, Ms. Lee, and Ms. Singleton between April 11 and July 27, 2018. The surveys were conducted by walking along the edges of, as well as within, potential LBVI habitat on the study area while listening for individuals and viewing birds with the aid of binoculars. The survey route was arranged to ensure complete survey coverage of habitat with potential for occupancy by LBVI. The survey area consisted of approximately 1.72 acres of suitable LBVI.

Focused surveys were also previously conducted on the study area by PCR between April 17 and July 28, 2015 following the same methods described above.

2.3.3 Jurisdictional Delineation

Prior to beginning fieldwork, aerial photographs (1 inch = 50 feet), topographic maps (1 inch = 50 feet), USGS quadrangle maps, and National Wetlands Inventory maps (USFWS 2019b) were reviewed to assist in determining the location of potential jurisdictional waters on the study area. Mr. Cooley conducted the jurisdictional delineation field work on April 19, 2018. The assessment was conducted to identify jurisdictional waters potentially subject to USACE jurisdiction pursuant to EPA's Old Rule, Section 404 of the Clean Water Act (CWA), RWQCB jurisdiction pursuant to Section 401 of the CWA, and streambed habitats potentially subject to CDFW jurisdiction pursuant to Sections 1600 *et seq.* of the California Fish and Game Code (CFG Code). Data collection was targeted in areas that were deemed to have the potential to support jurisdictional resources, such as the presence of an ordinary high water mark (OHWM), the presence of a bed/bank and streambed associated vegetation, and/or other surface indications of streambed hydrology. Representative photographs were taken of jurisdictional features and are included as Appendix D, *Drainage Photographs*. A summary of the regulatory framework is provided below.

2.3.3.1 U.S. Army Corps of Engineers and Regional Water Quality Control Board Jurisdiction

The USACE waters of the U.S. (WOTUS) were determined using the then former EPA Old Rule, USACE guidelines (Environmental Laboratory 1987, USACE 2008a). Areas were determined to be WOTUS if there was evidence of regular surface flow (e.g., bed and bank). Jurisdictional limits for these areas were measured according to the presence of a discernible OHWM, which is defined in 33 Code of Federal Regulations Section 329.11 as "that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank; shelving; changes in the character of the soil; destruction of terrestrial vegetation; the presence of litter or debris; or other appropriate means that consider the characteristics of the surrounding areas." The USACE has issued further guidance on the OHWM (Riley 2005; USACE 2008b), which also was considered in this jurisdictional delineation.

The jurisdictional delineation was conducted in accordance with EPA Old Rule and court decisions (i.e., Rapanos v. United States, Carabell v. United States, and Solid Waste Agency of Northern Cook County v. USACE), as outlined and applied by the USACE (USACE 2007; Grumbles and Woodley 2007); and USACE and U.S. Environmental Protection Agency (EPA; 2007). These publications explain that the EPA and USACE will assert jurisdiction over traditional navigable waters (TNW) and tributaries to TNWs that are a relatively permanent water body (RPW), which has year-round or continuous seasonal flow. For water bodies that are not RPWs, a significant nexus evaluation is used to determine if the non-RPW is jurisdictional. As an alternative to the significant nexus evaluation process, a preliminary jurisdictional delineation may be submitted to the USACE. The preliminary jurisdictional delineation treats all waters and wetlands on a site as if they are jurisdictional WOTUS (USACE 2008a). A significant nexus evaluation or preliminary jurisdictional delineation are typically only required for projects that propose impacts to potentially jurisdictional features and, therefore, require a Section 404 permit from the USACE. As stated previously the New Rule WOTUS definition will supersede once it becomes effective upon being published in the Federal Register.

The RWQCB asserts regulatory jurisdiction over activities affecting wetland and non-wetland waters of the State pursuant to Section 401 of the CWA and the State Porter-Cologne Water Quality Control Act. Potential RWQCB jurisdiction found within the study area follows the boundaries of potential USACE

jurisdiction for WOTUS. There are no areas supporting isolated waters of the State subject to exclusive RWQCB jurisdiction pursuant to the State Porter-Cologne Water Quality Control Act.

2.3.3.2 California Department of Fish and Wildlife Jurisdiction

The CDFW jurisdictional boundaries were determined based on the presence of riparian vegetation or regular surface flow, if present. Streambeds within CDFW jurisdiction were delineated based on the definition of streambed as “a body of water that flows at least periodically or intermittently through a bed or channel having banks and supporting fish or other aquatic life. This includes watercourses with surface or subsurface flow that supports riparian vegetation” (Title 14, Section 1.72). This definition for CDFW jurisdictional habitat allows for a wide variety of habitat types to be jurisdictional, including some that do not include wetland species (e.g., oak woodland and alluvial fan sage scrub). Jurisdictional limits for CDFW streambeds were defined by the top of bank. Vegetated CDFW habitats were mapped at the limits of streambed-associated vegetation, if present.

2.3.4 Riparian/Riverine and Vernal Pool Habitat Assessment

In accordance with the MSHCP, a Riparian/Riverine and Vernal Pool habitat assessment was conducted by Mr. Cooley on April 19, 2018. This habitat assessment was conducted concurrently with the jurisdictional delineation. The identification of Riparian/Riverine habitats is based on potential for the habitat to support, or be tributary to habitat that support, Riparian/Riverine Covered Species identified in MSHCP Section 6.1.2.

3.0 RESULTS

3.1 ENVIRONMENTAL SETTING

The study area consists of undeveloped land dominated by non-native grassland. Drainage Complex A runs from the southeast corner of the study area to the northeast corner. The study area supports one drainage complex (Drainage Complex A), which runs diagonally through study area from the southeast corner to the northwest corner of the site. Drainage Complex A is an ephemeral drainage feature that is dominated by southern willow scrub. A small patch of mule fat scrub was noted in the downstream portion the drainage complex. The topography of the study area is mostly flat with some gentle slopes throughout. Elevations on the study area range from approximately 1,075 feet (326 meters) above mean sea level (AMSL) within the drainage to a high of approximately 1,090 feet (332 meters) AMSL near the southwestern boundary. The study area is surrounded by residential and commercial development on all sides with the exception of an isolated patch of undeveloped land to the northeast.

The MSHCP lists nine sensitive soil types that occur within the Plan Area (Dudek 2003). None of the MSHCP sensitive soils occur on or immediately adjacent to the study area. Soils on the study area are mapped primarily as Hanford coarse sandy loam (two to eight percent slopes; NRCS 2019). The southwestern portion and a small area along the eastern border of the study area are mapped as Ramona and Buren loams (5 to 25 percent slopes, severely eroded). These two soil types consist of well-drained soils and are associated with alluvial fans and terraces.

3.2 VEGETATION COMMUNITIES

A total of five vegetation communities and land uses were mapped on the study area, including mule fat scrub, southern willow scrub, non-native grassland, disturbed, and developed (Table 1, *Vegetation and Land Uses*; Figure 5, *Vegetation*). A brief description of each vegetation community mapped on the study area is provided below.

Table 1
VEGETATION AND LAND USES

MSHCP Vegetation Community Classification[1]		Study Area		
Collapsed	**Uncollapsed**	**On-Site (acres)[2]**	**Off-Site (acres)[2]**	**Total (acres)[2]**
Riparian Scrub, Woodland, Forest	Mule Fat Scrub	0.01	0.00	**0.01**
	Southern Willow Scrub[3]	1.65	0.05	**1.70**
Grassland	Non-Native Grassland	3.04	0.31	**3.35**
Developed/Disturbed Land	Disturbed	0.00	0.31	**0.31**
	Developed	0.00	0.13	**0.13**
	TOTAL	**4.70**	**0.80**	**5.50**

[1] Collapsed and uncollapsed community classifications are terms from MSHCP Table 2-1.
[2] Acreages are rounded to the nearest hundredth.
[3] Sensitive community pursuant to CDFW's Natural Communities List (CDFW 2018).

3.2.1 Mule Fat Scrub

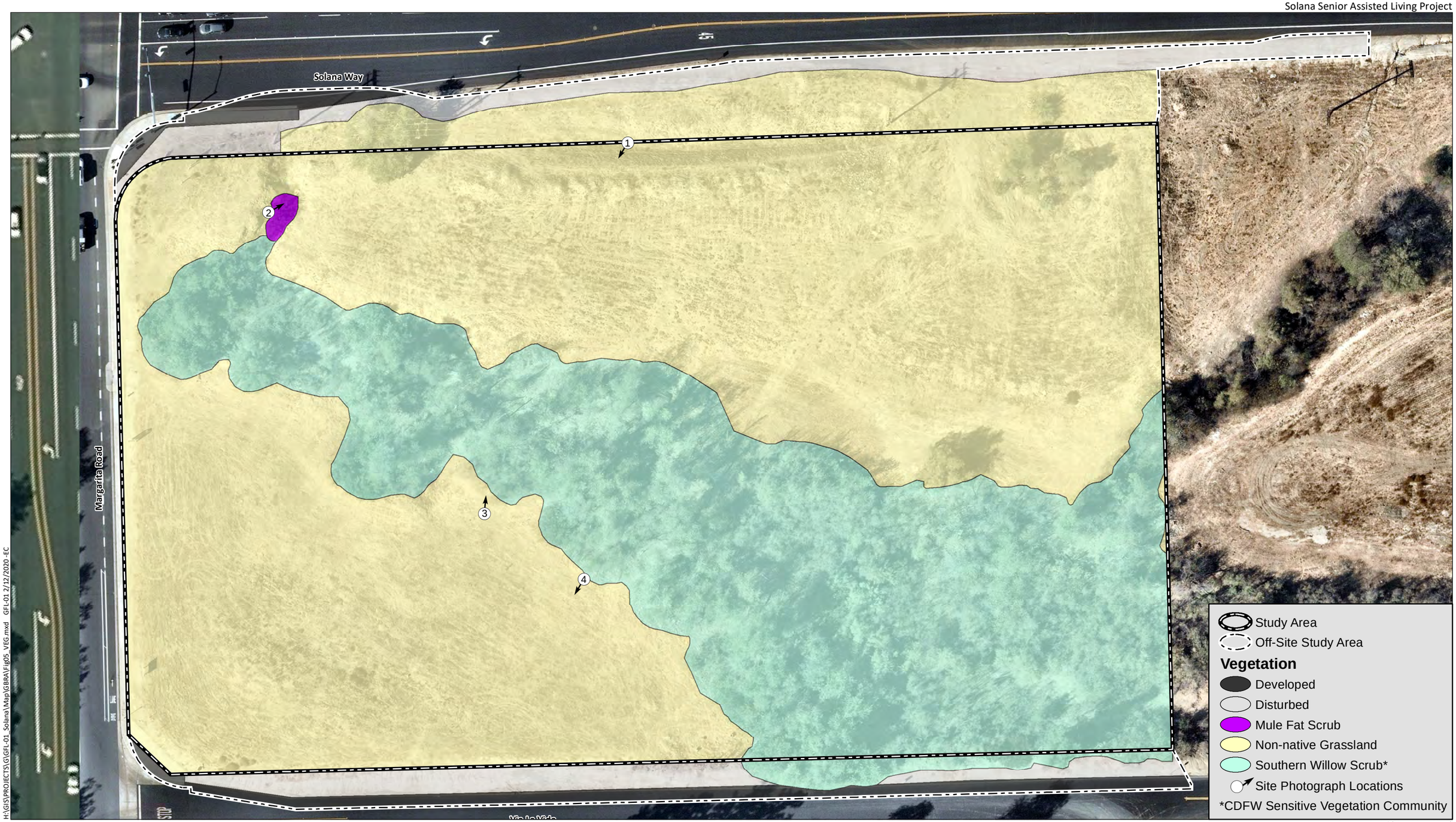
Mule fat scrub is a shrubby riparian scrub community dominated by mule fat (*Baccharis salicifolia*) and often interspersed with small willows (*Salix* spp.). This early seral community is dominated by frequent flooding, the absence of which would lead to a cottonwood or sycamore dominated woodland or forest. In some environments, limited hydrology may favor the persistence of mule fat.

One small patch of mule fat scrub was observed near the western corner of the study area, totaling 0.01 acre. This community consisted almost entirely of mule fat with the exception of some non-native grass species in the understory, such as red brome (*Bromus madritensis* ssp. rubens) and Mediterranean grass (*Schismus barbatus*).

3.2.2 Southern Willow Scrub

Southern willow scrub consists of dense, broad-leaved, winter-deciduous stands of trees dominated by shrubby willows in association with mule fat and scattered Fremont cottonwoods (*Populus fremontii*) and western sycamores (*Platanus racemosa*). This vegetation community occurs on loose, sandy or fine gravelly alluvium deposited near stream channels during flood flows. Frequent flooding maintains this early seral community, preventing succession to a riparian woodland or forest.

Southern willow scrub was observed throughout Drainage Complex A, totaling 1.70 acres. This community was dominated by various willow species, including arroyo willow (*Salix lasiolepis*), black willow (*Salix gooddingii*), narrow-leaved willow (*Salix exigua*), and red willow (*Salix laevigata*). Native species observed in the understory included coyote brush (*Baccharis pilularis*) and mule fat while non-native species included broadleaved pepperweed (*Lepidium latifolium*), common ripgut grass (*Bromus diandrus*), curly dock (*Rumex crispus*), milk thistle (*Silybum marianum*), and nettle-leaf goosefoot (*Chenopodium murale*).



Source: Aerial (NearMap, 2017)

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Vegetation

Figure 5

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3.2.3 Non-Native Grassland

Non-native grassland is a dense to sparse cover of annual grasses, often associated with numerous species of showy-flowered native annual forbs. Characteristic species include oats (*Avena* spp.), brome grasses (*Bromus* spp.), and mustards (*Brassica* spp.). Most of the annual introduced species within non-native grasslands originated from the Mediterranean region, an area with a long history of agriculture and a climate similar to California. Intensive grazing and agricultural practices combined with severe droughts in California contributed to the successful invasion and establishment of these species and the replacement of native grasslands with annual-dominated non-native grasslands (Jackson 1985).

Non-native grassland was the predominant plant community observed on the study area, totaling 3.35 acres. This plant community consisted mostly of red brome. Other non-native grass species included common ripgut grass, fescue (*Festuca myuros*), hare barley (*Hordeum murinum*), Mediterranean grass, slender oak (*Avena barbata*), and soft brome (*Bromus hordeaceus*). Several non-native herbaceous species were also observed within this community, including redstem filaree (*Erodium cicutarium*), Russian thistle (*Salsola tragus*), and shortpod mustard (*Hirschfeldia incana*).

3.2.4 Disturbed

Disturbed land includes land cleared of vegetation (e.g., dirt roads), land containing a preponderance of non-native plant species such as ornamentals or ruderal exotic species that take advantage of disturbance (previously cleared or abandoned landscaping), or land showing signs of past or present animal usage that removes any capability of providing viable habitat.

Disturbed land was observed within the off-site areas, totaling 0.31 acre. These areas consisted of compact dirt adjacent to the paved roads and were mostly unvegetated due to heavy disturbance.

3.2.5 Developed

Developed land is where permanent structures and/or pavement have been placed, which prevents the growth of vegetation, or where landscaping is clearly tended and maintained.

Developed land was observed within the off-site areas, totaling 0.13 acre. The developed land consisted of the existing ROWs within Solana Way and Via La Vida.

3.3 PLANTS

HELIX identified a total of 40 plant species on the study area during surveys to date, of which 23 (58 percent) are non-native species (Appendix A). The predominance of non-native species is indicative of the high degree of disturbance on the site and presence of surrounding development.

3.4 ANIMALS

A total of 26 animal species were detected on the study area during surveys to date, including 23 bird species and 3 mammal species (Appendix B).

3.5 SENSITIVE BIOLOGICAL RESOURCES

3.5.1 Rare Plant Species

Rare plant species are uncommon or limited in that they: (1) are only found in the western County region; (2) are a local representative of a species or association of species not otherwise found in the region; or (3) are severely depleted within their ranges or within the region. Rare plant species include those species listed by CNPS with a California Rare Plant Rank (CRPR) of 1, 2, or 3 (2019), federally and state listed endangered and threatened species, or those species that require additional surveys by the MSHCP (Dudek 2003). Since the study area does not occur within any MSHCP rare plant survey overlays, no focused surveys were warranted. The MSHCP survey requirements for rare plant species is discussed in Section 3.6, below.

A total of 23 rare plant species were recorded within the Murrieta quadrangle based on a database search conducted on CNDDB and CNPS (CDFW 2018, CNPS 2018). These species are included in Appendix E, *Rare Plant Species Potential to Occur.* Of the 23 rare plant species recorded within the vicinity of the study area, 21 species were considered to have no potential to occur based on geographic range, elevation range, and/or lack of suitable habitat on the study area. Two species (San Diego ambrosia [*Ambrosia pumila*] and white rabbit-tobacco [*Pseudognaphalium leucocephalum*]) were determined to have a low potential to occur on the study area. San Diego ambrosia has a potential to occur based on mapped sandy soils and its affinity for disturbance.

San Diego ambrosia is a federally endangered species and is listed with a CRPR of 1B.1. This species is conditionally covered under the MSHCP. A habitat assessment and surveys for this species are only required if a project occurs within NEPSSA 2, which the study area is not located within a NEPSSA. White rabbit-tobacco is listed with a CRPR of 2B.2, but is not a federally- or state-listed species. Neither of these species were observed during any of the site visits that were conducted within suitable habitat within the blooming period for San Diego ambrosia (April through July) and white rabbit-tobacco (July through October). Therefore, these species are presumed absent from the study area.

3.5.2 Sensitive Animal Species

Sensitive animal species include federally and state listed endangered and threatened, candidate species for listing by USFWS or CDFW, and/or are species of special concern (SSC) pursuant to CDFW. Additional MSHCP survey requirements for BUOW are discussed below in Section 3.6.4.

A total of 25 sensitive animal species were recorded within the USGS Murrieta quadrangle based on a database search conducted on CNDDB (CDFW 2018) which encompasses approximately 70 square miles. These species are included in Appendix F, *Sensitive Animal Species Potential to Occur*. Of the 25 sensitive animal species recorded within the vicinity of the study area, eight species were determined to have a potential to occur on the study area, although six of these species were determined to have a low potential to occur on the study area based on the presence of low quality and isolated habitat, limited acreage of habitat, surrounding development, and lack of recent observations within the immediate vicinity of the study area. These six species include Los Angeles pocket mouse (*Perognathus longimembris brevinasus*), northwestern San Diego pocket mouse (*Chaetodipus fallax fallax*), San Diego black-tailed jackrabbit (*Lepus californicus bennettii*), Stephens' kangaroo rat (*Dipodomys stephensi*), western mastiff bat (*Eumops perotis californicus;* foraging only), and white-tailed kite (*Elanus leucurus*). The white-tailed kite has not been recorded within the Murrieta quadrangle on CNDDB in 20 years. The

most recent occurrence of the species was recorded on CNDDB in 1999, approximately 2.75 miles to the northeast of the study area.

Northwestern San Diego pocket mouse, San Diego black-tailed jackrabbit, Stephens' kangaroo rat, and white-tailed kite are fully covered species under the MSHCP. Los Angeles pocket mouse is a conditionally covered species under the MSHCP. Focused surveys for this species are only required if a project occurs within a Mammal Species Survey Area, which the study area is not within this survey area. With payment of the MSHCP Local Development Mitigation Fee (LDMF), no additional mitigation is required for potential impacts to these species.

Western mastiff bat is not an MSHCP covered species and does not carry a federal or state listing as threatened or endangered. This species is listed as SSC by CDFW. The study area does not support suitable roosting habitat for this species. There is some potential for foraging habitat on the study area, although the habitat is considered low quality based on presence of surrounding development. This species was only recorded once within the Murrieta quadrangle on CNDDB, which was in 1991 approximately 1.25 miles to the southwest of the study area (CDFW 2019). Based on the presence of surrounding development, lack of recent observations, and absence of suitable roosting habitat, no significant impacts to western mastiff bat are anticipated by the project.

An evaluation of each sensitive animal species' potential to occur on the study area is provided in Appendix F. The remaining two species (BUOW and LBVI) are currently presumed absent from the study area based on negative focused survey results. The current status of BUOW and LBVI on the study area is discussed in further detail below.

Burrowing Owl

Focused BUOW surveys were conducted in 2018 by HELIX and 2015 by PCR in accordance with the County's survey protocol, as previously described in Section 2.3.2 above (County 2006). No BUOWs or BUOW sign were observed within the survey area during either focused survey. Therefore, the study area does not currently support BUOWs. The survey methods and results are discussed in detail in separate letter reports, which are provided as Appendix G, *2018 Burrowing Owl Focused Survey Report* and Appendix H, *2015 Burrowing Owl Focused Survey Report*.

Least Bell's Vireo

Focused LBVI surveys was conducted in 2018 by HELIX and 2015 by PCR in accordance with USFWS's survey protocol, as previously described in Section 2.3.2.2 above (USFWS 2001). The study area supports 1.71 acres of suitable habitat for LBVI. No LBVIs were observed within suitable habitat on the study area during either focused survey. Therefore, this species is presumed absent from the study area. The survey methods and results are discussed in detail in separate letter reports, which are provided as Appendix I, *2019 Least Bell's Vireo Focused Survey Report* and Appendix J, *2015 Burrowing Owl Focused Survey Report*.

3.5.3 Sensitive Vegetation Communities/Habitats

Sensitive vegetation communities/habitats are considered either rare within the region or sensitive by CDFW (CDFW 2018, Holland 1986). Communities are given a Global and State ranking on a scale of 1 to 5. Communities afforded a rank of 5 are most common while communities with a rank of 1 are

considered highly periled. CDFW considers sensitive communities as those with a rank between S1 and S3.

The study area supports one sensitive plant community pursuant to CDFW (southern willow scrub). A total of 1.70 acres of southern willow scrub was mapped within Drainage Complex A.

3.5.4 Habitat and Wildlife Corridor Evaluation

Wildlife corridors connect otherwise isolated pieces of habitat and allow movement or dispersal of plants and animals. Corridors can be local or regional in scale; their functions may vary temporally and spatially based on conditions and species presence. Local wildlife corridors allow access to resources such as food, water, and shelter within the framework of their daily routine. Animals use these corridors, which are often hillsides or tributary drainages, to move between different habitats. Regional corridors provide these functions over a larger scale and link two or more large habitat areas, allowing the dispersal of organisms and the consequent mixing of genes between populations.

The study area is not located within any MSHCP Linkages, which are areas within the Plan Area that are identified as having the potential to facilitate wildlife movement. The nearest linkage to the study area is Constrained Linkage 13, which is approximately 1.3 miles to the southwest of the study area and consists of Murrieta Creek (Dudek 2003). The study area is not located within any linkages recognized by the South Coast Missing Linkages (South Coast Wildlands 2008). The nearest linkage identified is the Santa Ana-Palomar Connection located approximately 2.5 miles to the south of the study area.

The study area does not directly connect to large blocks of habitat and is bounded by Solana Way to the north, Margarita Road to the west, and Via La Vida to the south. Although the study area abuts undeveloped land to the east, the study area and the adjacent undeveloped property are entirely surrounded by commercial and residential development. The study area supports native riparian vegetation within Drainage Complex A; however, the habitat does not connect to any other native habitat in the vicinity. The nearest large stretch of undeveloped land is located approximately 0.3 mile to the northeast of the study area, which connects to undeveloped land surrounding Skinner Reservoir. However, this undeveloped land does not directly connect to the study area due to existing residential and commercial development. Since the study area does not connect two or more large habitat areas, the study area is not considered a regional wildlife corridor.

The native riparian and non-native grassland habitats likely provide foraging habitat and cover for certain species, particularly those species adapted to human disturbance such as small mammals (e.g., raccoon [*Procyon lotor*], skunk [*Mephitis* sp.] and cottontail rabbits [*Sylvilagus* sp.]). Additionally, bird species are able to fly over existing development to access the study area for foraging and nesting. Therefore, the study area may support limited opportunities for local wildlife movement but does not function as a wildlife corridor since it does not directly connect to large blocks of habitat.

3.5.5 Jurisdictional Waters

Based on the results of the jurisdictional delineation, one jurisdictional feature (Drainage Complex A) was observed on the study area (Figure 6, *Jurisdictional Features and MSHCP Riparian Areas*; Table 2, *Existing Jurisdictional Features*). Representative drainage photographs are included as Appendix D. Drainage Complex A bisects the study area and comprises four ephemeral drainage features, including

mainstem Drainage A and three small tributaries (Drainages A1, A2, and A3). No wetlands or other special aquatic sites occur within the study area.

Table 2
EXISTING JURISDICTIONAL FEATURES

Drainage	USACE/RWQCB[1]			CDFW[1]		
	On-site (acres)[2]	Off-site (acres)[2]	Total (acres)[2]	On-site (acres)[2]	Off-site (acres)[2]	Total (acres)[2]
A	0.13	0.00	**0.13**	1.20	0.02	**1.22**
A1	<0.01[3]	0.00	**<0.01**	0.02	0.00	**0.02**
A2	0.01	0.00	**0.01**	0.06	0.00	**0.06**
A3	0.02	0.00	**0.02**	0.37	0.04	**0.41**
TOTAL	**0.16**	**0.00**	**0.16**	**1.65**	**0.06**	**1.71**

1 Jurisdictional acreages overlap and are not additive (e.g., USACE/RWQCB acreages are included in the CDFW acreages.
2 Acreages are rounded to the nearest hundredth.
3 Actual acreage is 0.013 acre.

The study area supports a total of 0.16 acre of USACE/RWQCB non-wetland WOTUS and 1.71 acres of CDFW jurisdictional streambed and riparian vegetation. The jurisdictional features are described in detail below.

3.5.5.1 Drainage A

Drainage A is an ephemeral drainage feature that appears to initiate to the east of the study area. Based on historic aerial review, the drainage originally initiated in the hillsides approximately one mile to the northeast of the study area (Historic Aerials 1978). Since 1978, the area surrounding the study area has been heavily developed and the upstream watershed has been diverted underground into a series of regional storm drains. Drainage A originates at an existing storm drain outlet to existing grade approximately 700 feet to the east of the study area and enters the study area near the eastern boundary. The drainage flows for approximately 650 linear feet (LF on the study area and exits near the western boundary via an inlet to an existing storm drain that runs under Margarita Road. The existing Storm Drain is shown on Figure 7, *Existing Storm Drain*. This storm drain continues underground and drains into Murrieta Creek approximately 0.9 mile to the southwest of the study area. Murrieta Creek is a tributary to the Santa Margarita River, which ultimately drains into the Pacific Ocean approximately 25 miles to the southwest of the study area. Drainage A is dominated by southern willow scrub species. Soils within Drainage A consist of coarse sandy loam from the Hanford soil series and loams from the Ramona and Buren loams (NRCS 2019).

Within the study area, Drainage A supports approximately 0.13 acre of USACE/RWQCB WOTUS as defined in the EPA Old Rule and 1.22 acres of CDFW jurisdictional streambed and associated riparian vegetation. Under the New EPA January 23, 2020 Rule Drainage A would not be considered as WOTUS and therefore a Nationwide Permit would not be required.

3.5.5.2 Drainage A1

Drainage A1 is a small ephemeral tributary to Drainage A, which initiates near the northwestern corner of the study area. The drainage appears to consolidate runoff from Solana Way. The drainage extends

south for approximately 100 LF prior to joining Drainage A. The upstream portion of Drainage A1 mostly consists of non-native grass species while the downstream portion supports small patches of mule fat scrub and southern willow scrub. Soils within Drainage A1 consist of coarse sandy loam from the Hanford soil series (NRCS 2019).

Within the study area, Drainage A1 supports less than 0.01 acre of USACE/RWQCB WOTUS as defined in the EPA Old Rule and 0.02 acre of CDFW jurisdictional streambed and associated riparian vegetation. Under the New EPA January 23, 2020 Rule Drainage A would not be considered as WOTUS and therefore a Nationwide Permit would not be required.

3.5.5.3 Drainage A2

Drainage A2 is a small ephemeral tributary to Drainage A that initiates to the northeast of the study area via an existing storm drainpipe that runs under Solana Way. The drainage enters the study area from an existing storm drain outlet onto the adjacent property near the eastern boundary and extends south for approximately 90 LF prior to joining Drainage A. The existing storm drain is shown on Figure 7. Drainage A2 is dominated by southern willow scrub species. Soils within Drainage A2 consist of coarse sandy loam from the Hanford soil series (NRCS 2019).

Within the study area, Drainage A2 supports approximately 0.01 acre of USACE/RWQCB WOTUS as defined in the EPA Old Rule and 0.06 acre of CDFW jurisdictional streambed and associated riparian vegetation. Under the New EPA January 23, 2020 Rule Drainage A would not be considered as WOTUS and therefore a Nationwide Permit would not be required.

3.5.5.4 Drainage A3

Drainage A3 is a small ephemeral tributary to Drainage A, which initiates near the southern boundary of the study area via a storm drainpipe that runs under Via La Vida. The drainage extends south for approximately 230 LF prior to joining Drainage A. Drainage A3 is dominated by southern willow scrub species. Soils consist of coarse sandy loam from the Hanford soil series and loams from the Ramona and Buren loams (NRCS 2019).

Within the study area, Drainage A3 supports approximately 0.02 acre of USACE/RWQCB WOTUS as defined in the EPA Old Rule and 0.41 acre of CDFW jurisdictional streambed and associated riparian vegetation. Under the New EPA January 23, 2020 Rule Drainage A would not be considered as WOTUS and therefore a Nationwide Permit would not be required.

3.6 WESTERN RIVERSIDE COUNTY MSHCP CONSISTENCY ANALYSIS

3.6.1 Project Location within the MSHCP

The MSHCP Plan Area is divided into 16 Area Plans, within which 153,000 acres were identified as potential areas for conservation that would contribute to the overall existing MSHCP Conservation Area. The areas identified for conservation within the MSHCP Plan Area are called Criteria Areas and include Core Areas that support habitat for covered species and Linkages that provide a connection between Core Areas. The Criteria Areas are divided into 160-acre cells, which each have their own conservation goal. All projects within a cell or cell group are required to be accessed through the Habitat Acquisition and Negotiation Strategy (HANS) process to determine the amount of MSHCP conservation required.

Source: Aerial (NearMap, 2017)

0 50 Feet

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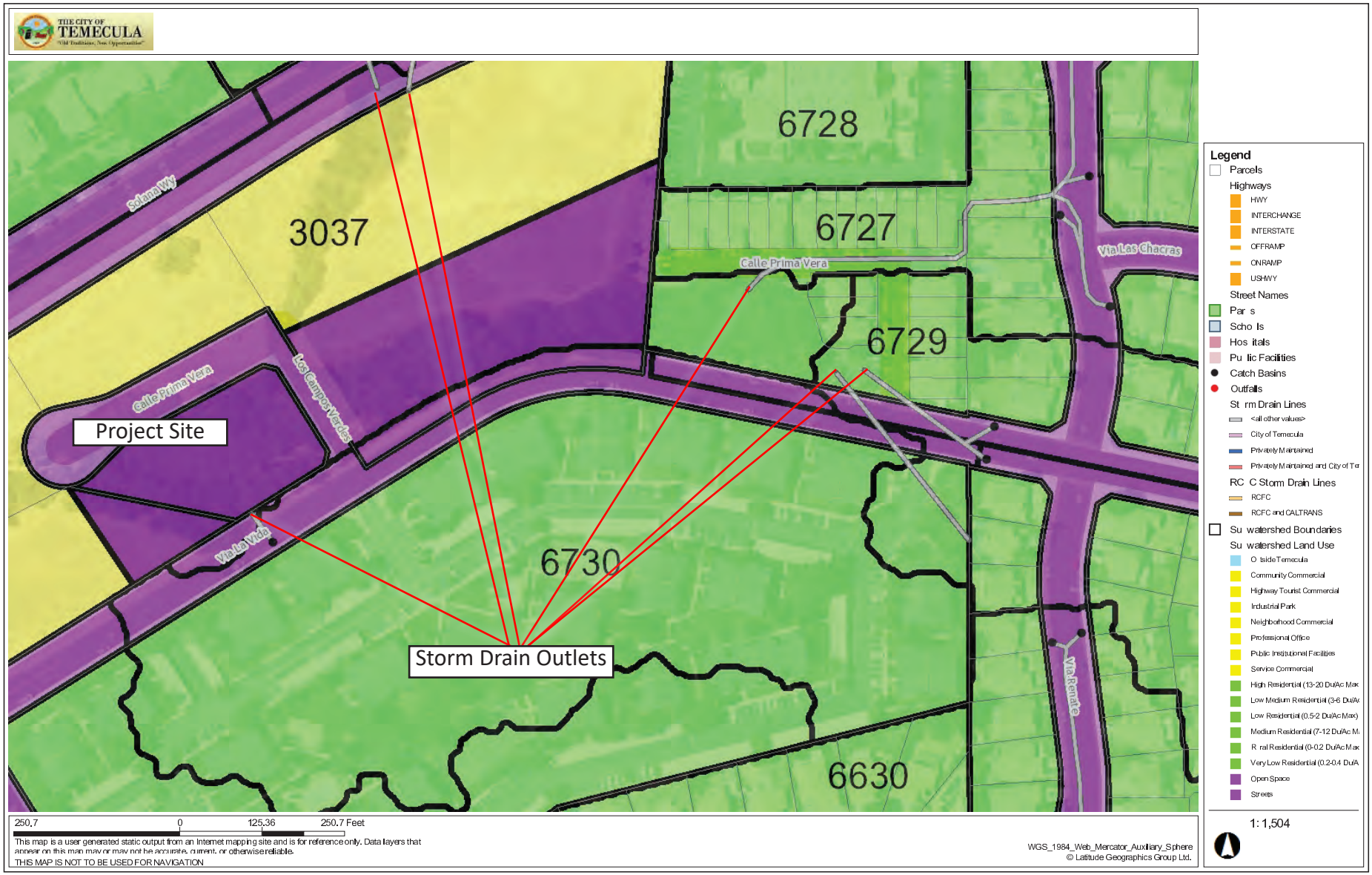
Jurisdictional Features and MSHCP Riparian Areas

Figure 6



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Source:City of Temecula, 2019

HELIX Environmental Planning

Existing Storm Drain

Figure 7

The HANS process aides in the acquisition of lands that will contribute to the assembly of the MSHCP Reserve.

As described in Section 2.1.2 of the MSHCP, the study area is located in the Riverside Lowlands bioregion, an area lying generally below 2,000 AMSL and characterized by Riversidean sage scrub and annual grasslands. The relatively arid climate is partly the result of rain shadow cast by the Santa Ana Mountains. A high level of disturbance and urbanization are noted within this bioregion (Dudek 2003).

The study area is located within the Southwest Area Plan and is not located within or adjacent to an MSHCP Criteria Area; therefore, the study area is not subject to special conservation requirements that apply to cells and is not required to undergo the HANS process. The nearest criteria cell to the study area is Cell 6891, which located approximately 0.3 mile to the southwest (Figure 8, *MSHCP Criteria Cell*). The study area is not located within or directly adjacent to any MSHCP Conservation Areas. The study area is located approximately 1.3 miles to the southwest of Constrained Linkage 13.

3.6.2 Riparian/Riverine and Vernal Pool Habitat Assessment (MSHCP Section 6.1.2)

The identification of MSHCP Riparian/Riverine resources is based on the potential for the habitat to support, or be a tributary to habitat that supports, Riparian/Riverine Covered Species. Riparian/Riverine Covered Species are identified in MSHCP Section 6.1.2. The MSHCP defines Riparian/Riverine habitat as "lands which contain Habitat dominated by trees, shrubs, or emergent mosses and lichens, which occur close to or which depend upon soil moisture from a nearby fresh water source; or areas with fresh water flow during all or a portion of the year" (Dudek 2003). The MSHCP defines Vernal Pools as "seasonal wetlands that occur in depression areas that have wetlands indicators of all three parameters (soils, vegetation, and hydrology) during the wetter portion of the growing season but normally lack wetlands indicators of hydrology and/or vegetation during the drier portion of the growing season" (Dudek 2003). Artificially created features, except for those created intentionally to provide wetland habitat or resulting from the creation of open waters or alteration of natural stream courses, are not considered MSHCP Riparian/Riverine Areas or Vernal Pools.

In accordance with the MSHCP, a Riparian/Riverine habitat assessment was conducted by Mr. Cooley on April 19, 2018. The Riparian/Riverine and Vernal Pool habitat assessment was conducted concurrently with the jurisdictional delineation. MSHCP Riparian Areas were identified within the study area, which are consistent with the limits of CDFW jurisdictional vegetation. The Riparian Areas mapped on the study area are equivalent to the total area of CDFW jurisdiction within Drainage Complex A (1.71 acres; Figure 6). The study area does not support any areas considered MSHCP Riverine or Vernal Pool Habitat.

3.6.2.1 Riparian/Riverine and Vernal Pool Species

Through the protection of Riparian/Riverine and Vernal Pool habitats, the MSHCP aims to conserve several plant and animal species within the Plan Area. During the Riparian/Riverine habitat assessment discussed above, each plant and animal species listed in Section 6.1.2 of the MSHCP was evaluated to determine the potential to occur on the study area. Riparian/Riverine and Vernal Pool species are discussed in detail below.

Plant Species

The MSHCP lists 23 rare plant species that have a potential to occur in Riparian/Riverine and/or Vernal Pool habitats within the MSHCP Plan Area, which are listed below in Table 2, *MSHCP Riparian/Riverine and Vernal Pool Plant Species*. No Riparian/Riverine or Vernal Pool plant species were observed during any of the field surveys. A list of plant species observed during the field surveys are provided as Appendix A.

Table 2
MSHCP RIPARIAN/RIVERINE AND VERNAL POOL PLANT SPECIES

Common Name	Scientific Name	Habitat
Brand's phacelia	*Phacelia stellaris*	Sandy washes and/or benches in alluvial flood plains.
California Orcutt grass	*Orcuttia californica*	Vernal pools.
Coulter's matilija poppy	*Romneya coulteri*	Dry washes and canyons in chaparral and coastal sage scrub communities and disturbed areas.
Engelmann oak	*Quercus engelmannii*	Woodlands, mixed chaparral, and savannah grasslands.
Fish's milkwort	*Polygala cornuta* var. *fishiae*	Shaded, rocky places in canyons associated with woodlands and chaparral.
graceful tarplant	*Holocarpha virgata* ssp. *elongata*	Coastal mesas and foothills with grassland habitats.
lemon lily	*Lilium parryi*	Moist montane meadows.
Mojave tarplant	*Deinandra mohavensis*	Drainages within arid montane chaparral.
mud nama	*Nama stenocarpum*	Marshes, swamps, lake margins, and riverbanks along muddy embankments.
ocellated Humboldt lily	*Lilium humboldtii* ssp. *ocellatum*	Shaded montane canyons.
Orcutt's brodiaea	*Brodiaea orcuttii*	Vernally moist grasslands and vernal pools; occasionally occurs along stream embankments within clay soils.
Parish's meadowfoam	*Limnanthes gracilis* var. *parishii*	Montane meadows with abundant annual and herbaceous perennials and lack of shrubs.
prostrate navarretia	*Navarretia prostrata*	Coastal sage scrub, valley and foothill grassland, and vernal pools.
San Diego button-celery	*Eryngium aristulatum* var. *parishii*	Vernal pools.
San Jacinto Valley crownscale	*Atriplex coronata* var. *notatior*	Highly alkaline and silty-clay soils associated with alkali sink scrub, alkali playa, vernal pool, and annual alkali grassland habitats.
San Miguel savory	*Clinopodium chandleri*	Coastal sage scrub, chaparral, cismontane woodland, riparian woodland, and valley and foothill grasslands.

Table 2 (cont.)
MSHCP RIPARIAN/RIVERINE AND VERNAL POOL PLANT SPECIES

Common Name	Scientific Name	Habitat
Santa Ana River woolly-star	*Eriastrum densifolium* spp. *sanctorum*	Sandy soils on flood plains and terraces within coastal scrub and chaparral communities.
slender-horned spineflower	*Dodecahema leptoceras*	Sandy soil associated with alluvial scrub; is often found on stream terraces and banks.
smooth tarplant	*Centromadia pungens* ssp. *laevis*	Alkali scrubs, playas, and grasslands; riparian woodland and streams.
spreading navarretia	*Navarretia fossalis*	Vernal pools, depressions, and ditches.
southern California black walnut	*Juglans californica*	Open savannahs, creek beds, alluvial terraces, and north-facing slopes.
thread-leaved brodiaea	*Brodiaea filifolia*	Clay soils in vernally moist grasslands and vernal pool periphery are typical locales.
vernal barley	*Hordeum intercedens*	Saline flats and depressions in grasslands or vernal pools.

Source: Dudek (2003).

Animal Species

The MSHCP lists 12 sensitive animal species that have a potential to occur in Riparian/Riverine and/or Vernal Pool habitats within the MSHCP Plan Area, which are listed in Table 3, *MSHCP Riparian/Riverine and Vernal Pool Animal Species*. The MSHCP requires focused surveys to be conducted for projects that propose impacts to three invertebrate and three bird species, as described in detail below. The study area supports suitable habitat for one of the sensitive bird species (LBVI) listed in Table 3, below.

Table 3
MSHCP RIPARIAN/RIVERINE AND VERNAL POOL ANIMAL SPECIES

Common Name	Scientific Name	Habitat
Riverside fairy shrimp	*Streptocephalus woottoni*	Deep vernal pools and other ephemeral basins that hold water for typically 30 or more days.
Santa Rosa Plateau fairy shrimp	*Linderiella santarosae*	Limited to vernal pools within the Santa Rosa Plateau.
vernal pool fairy shrimp	*Branchinecta lynchi*	Vernal pools and other ephemeral basins within patches of grassland and agriculture interspersed in coastal sage scrub and chaparral.
arroyo toad	*Anaxyrus californicus*	Washes and intermittent streams with open-canopy riparian forest.

Table 3 (cont.)
MSHCP RIPARIAN/RIVERINE AND VERNAL POOL ANIMAL SPECIES

Common Name	Scientific Name	Habitat
California red-legged frog	*Rana aurora draytonii*	Perennial streams with dense, shrubby riparian vegetation.
mountain yellow-legged frog	*Rana muscosa*	Perennial waterways, often within open riparian vegetation.
Santa Ana sucker	*Catostomus santaanae*	Clear, cool perennial streams with loose sand, gravel, cobble, and boulders with algae, aquatic emergent vegetation, macroinvertebrates, and riparian vegetation.
bald eagle	*Haliaeetus leucocephalus*	Within close proximity to lakes or other water bodies.
least Bell's vireo	*Vireo bellii pusillus*	Well-developed riparian scrub, woodland, or forest.
peregrine falcon	*Falco peregrinus*	Generally, areas with cliffs or tall buildings near water where prey (shorebirds and ducks) is concentrated.
southwestern willow flycatcher	*Empidonax traillii extimus*	Breeds within thickets of willows or other riparian understory usually along streams, ponds, lakes, or canyons.
western yellow-billed cuckoo	*Coccyzus americanus occidentalis*	Extensive stands of mature riparian woodland.

Source: Dudek (2003).

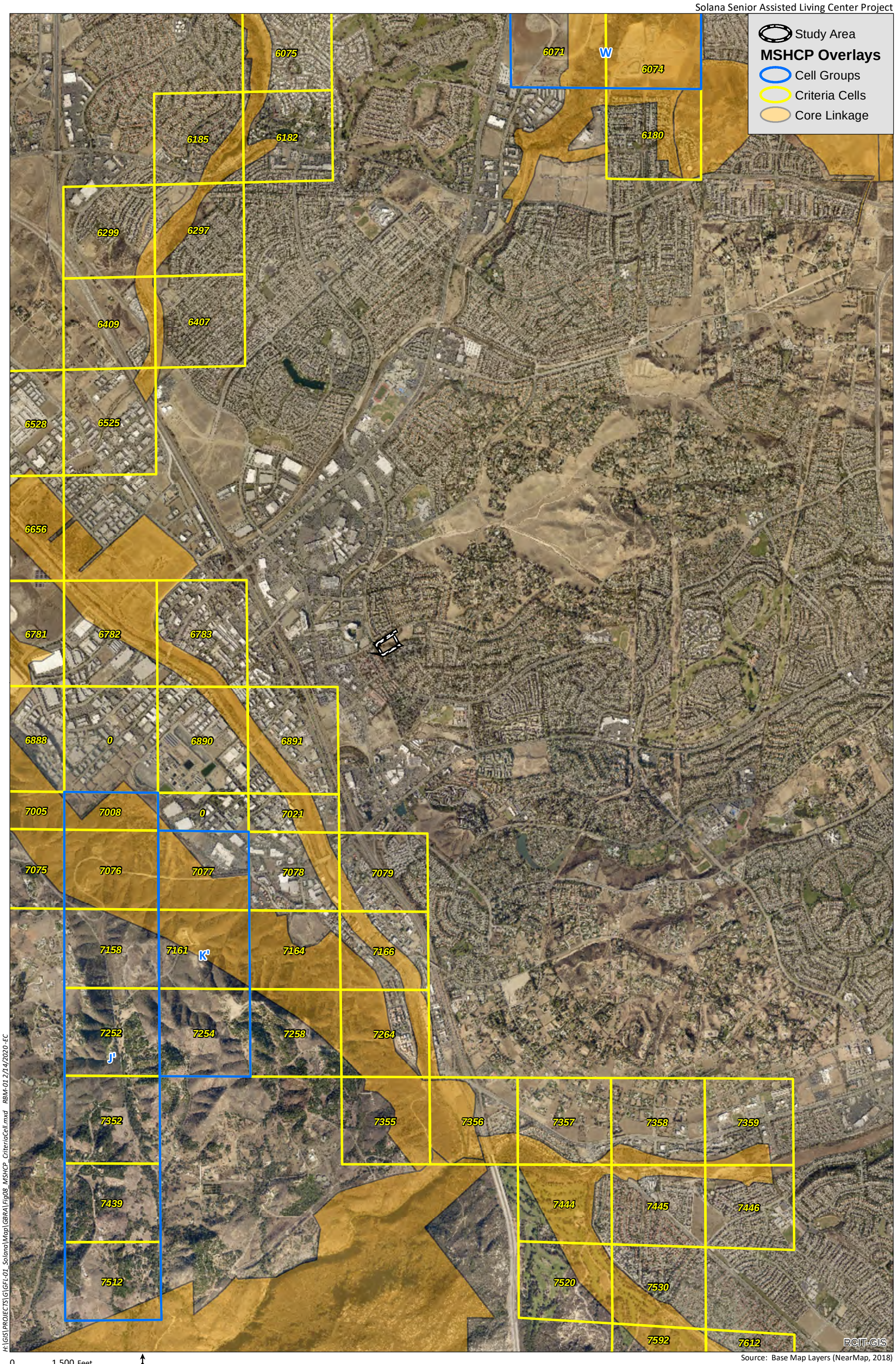
Invertebrates

There are three sensitive fairy shrimp species that occur in the MSHCP Plan Area, including Riverside fairy shrimp (*Streptocephalus woottoni*), Santa Rosa Plateau fairy shrimp (*Linderiella santarosae*), and vernal pool fairy shrimp (*Branchinecta lynchi*). Vernal pool fairy shrimp occurs throughout the Central Valley and in several disjunct populations in the County. This species exists in vernal pools and other ephemeral basins often located in patches of grassland and agriculture interspersed in coastal sage scrub and chaparral. Riverside fairy shrimp occurs in Riverside, Orange, and San Diego Counties as well as in northern Baja California, Mexico. This species is typically found in deeper vernal pools and other ephemeral basins that hold water for long periods of time (30 or more days). Santa Rosa Plateau fairy shrimp is limited to the Santa Rosa Plateau in the County.

The MSHCP requires focused surveys to be conducted for projects that propose impacts to suitable habitat for the three sensitive fairy shrimp species discussed above. The study area does not support suitable habitat for fairy shrimp species; therefore, no focused surveys were required.

Birds

Riparian/Riverine Areas within the MSHCP Plan Area provide suitable habitat for sensitive bird species, such as LBVI, southwestern willow flycatcher (*Empidonax traillii extimus*), western yellow-billed cuckoo (*Coccyzus americanus occidentalis*), bald eagle (*Haliaeetus leucocephalus*), and peregrine falcon (*Falco peregrinus*). Typical habitat for LBVI consists of well-developed riparian scrub, woodland, or forest dominated by willows, mule fat, and Fremont cottonwood. LBVI will also use small patches of trees adjacent to dense, riparian habitat. The study area therefore supports suitable habitat for LBVI.



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Source: Base Map Layers (NearMap, 2018)

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MSHCP Criteria Cell

Figure 8

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Southwestern willow flycatcher and western yellow-billed cuckoo require mature riparian forest with a stratified canopy and nearby water. Both the bald eagle and peregrine falcon occur primarily in and adjacent to open water habitats, with peregrine falcon occurring in riparian areas. Therefore, the study area does not support suitable habitat for the southwestern willow flycatcher, western yellow-billed cuckoo, bald eagle, and peregrine falcon.

The MSHCP requires focused surveys to be conducted for projects that propose impacts to suitable habitat for LBVI, southwestern willow flycatcher, and western yellow-billed cuckoo. The study area supports suitable habitat for LBVI; therefore, focused surveys were required. Focused surveys for LBVI were conducted in accordance with USFWS's survey protocol, as described in Section 2.3. of this report. No LBVIs were observed within suitable habitat on the study area during focused surveys conducted in 2015 and 2018. The results of the focused LBVI surveys are described in detail in separate letter reports, which are included as Appendices I and J.

3.6.3 Narrow Endemic Plant Species Survey Area (MSHCP Section 6.1.3)

The MSHCP requires focused plant surveys to be conducted for projects located within a Narrow Endemic Plant Species Survey Area (NEPSSA). There are 14 narrow endemic plant species that are associated with 10 different NEPSSAs located throughout the MSHCP Plan Area (see Table 6-1 in the MSHCP). Prior to conducting focused surveys, a habitat assessment should be conducted to determine whether the study area supports suitable habitat for plant species listed for the NEPSSA species. Focused surveys for species listed for the NEPSSA should be conducted if suitable habitat is present. If focused surveys are positive, 90 percent of the property that supports habitat suitable for long-term conservation of the species must be avoided until conservation goals for the species are satisfied.

The study area is not within a NEPSSA. Therefore, focused NEPSSA surveys were not required.

3.6.4 Additional Survey Needs and Procedures (MSHCP Section 6.3.2)

The MSHCP requires additional surveys for projects that support suitable habitat for certain conditionally-covered species. The survey results provide species-specific information in order for the MSHCP to satisfy the Federal Endangered Species Act (FESA) issuance criteria. If focused surveys are positive for conditionally-covered species, 90 percent of the property that supports habitat suitable for long-term conservation of the species must be avoided until conservation goals for the species are satisfied. Additional survey requirements are discussed in detail below.

3.6.4.1 Criteria Area Species

Focused surveys for rare plant species must be conducted for projects located within a Criteria Area Species Survey Area (CASSA). There are 13 criteria area species, which are associated with eight CASSAs located throughout the MSHCP Plan Area (see Table 6-1 in the MSHCP). Prior to conducting focused surveys, a habitat assessment should be conducted to determine whether the study area supports suitable habitat for plant species listed for the CASSA. If suitable habitat is present, focused surveys for species listed for the CASSA should be conducted.

The study area is not within a CASSA; therefore, focused CASSA surveys were not required.

3.6.4.2 Amphibian Species

Focused surveys for arroyo toad (*Bufo californicus*), California red-legged frog (*Rana draytonii*), and mountain yellow-legged frog (*Rana muscosa*) must be conducted for projects located within an Amphibian Species Survey Area.

The study area is not within the Amphibian Species Survey Area; therefore, focused surveys were not required.

3.6.4.3 Bird Species

A focused survey for BUOW must be conducted for projects located within a BUOW Survey Area.

The study area is located within the BUOW Survey Area. Therefore, BUOW focused surveys were conducted in accordance with the County's protocol, as described above in Section 2.3.2 of this report. No BUOWs or BUOW sign were observed during the focused surveys conducted in 2015 or 2018. Therefore, the study area does not currently support BUOW. The results of the focused BUOW surveys are described in detail in separate letter reports, which are included as Appendices G and H.

3.6.4.4 Mammal Species

Focused surveys for Aguanga kangaroo rat (*Dipodomys merriami collinus*), San Bernardino kangaroo rat (*Dipodomys merriami parvus*), and Los Angeles pocket mouse (*Perognathus longimembris brevinasus*) must be conducted for projects located within a Mammal Species Survey Area.

The study area is not within the Mammal Species Survey Area; therefore, focused surveys were not required.

4.0 REGIONAL AND REGULATORY CONTEXT

Biological resources located within the study area are subject to regulatory review by federal, state, and local agencies. Biological resources-related laws and regulations that apply to the project include the FESA, Migratory Bird Treaty Act (MBTA), CWA, California Endangered Species Act (CESA), and CFG Code.

4.1 FEDERAL REGULATIONS

4.1.1 Federal Endangered Species Act

Administered by the USFWS, the FESA provides the legal framework for the listing and protection of species (and their habitats) identified as being endangered or threatened with extinction. Actions that jeopardize endangered or threatened species and the habitats upon which they rely are considered a "take" under the ESA. Section 9(a) of the ESA defines take as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt to engage in any such conduct." "Harm" and "harass" are further defined in federal regulations and case law to include actions that adversely impair or disrupt a listed species' behavioral patterns.

Sections 4(d), 7, and 10(a) of the FESA regulate actions that could jeopardize endangered or threatened species. Section 7 describes a process of federal interagency consultation for use when federal actions

may adversely affect listed species. A biological assessment is required for any major construction activity if it may affect listed species. In this case, take can be authorized via a letter of biological opinion issued by the USFWS for non-marine related listed species issues. A Section 7 consultation is required when there is a nexus between federally listed species' use of the site and impacts to USACE jurisdictional areas. Section 10(a) allows issuance of permits for "incidental" take of endangered or threatened species. The term "incidental" applies if the taking of a listed species is incidental to and not the purpose of an otherwise lawful activity. The MSHCP is the Section 10(a) permit for the City, which includes the study area.

4.1.2 Federal Clean Water Act, Section 404

Federal wetland regulation (non-marine issues) is guided by the Rivers and Harbors Act of 1899 and the Federal Clean Water Act (CWA). The Rivers and Harbors Act deals primarily with discharges into navigable waters, while the purpose of the CWA is to restore and maintain the chemical, physical, and biological integrity of all WOTUS. Permitting for projects filling WOTUS, including wetlands and vernal pools, is overseen by USACE under Section 404 of the CWA. Projects may be permitted on an individual basis or may be covered under one of several approved Nationwide Permits based on size of jurisdictional areas impacted. Individual Permits are assessed individually based on the type of action, amount of fill, etc. Individual Permits typically require substantial time (often longer than six months) to review and approve, while Nationwide Permits are pre-approved if a project meets the appropriate conditions and limits of impact areas. A CWA Section 401 Water Quality Certification, which is administered by the State Water Resources Control Board, must be issued prior to any 404 Permit.

4.1.3 Migratory Bird Treaty Act

All migratory bird species that are native to the United States or its territories are protected under the Federal MBTA, as amended under the Migratory Bird Treaty Reform Act of 2004 (FR Doc. 05-5127). The MBTA is generally protective of migratory birds but does not actually stipulate the type of protection required. In common practice, the MBTA is used to place restrictions on disturbance of active bird nests during the nesting season, which is generally defined as March 1 to August 31. In addition, the USFWS commonly places restrictions on disturbances allowed near active raptor nests (January 15 to August 31).

4.1.4 Critical Habitat

As described by the FESA, critical habitat is the geographic area occupied by a threatened or endangered species essential to species conservation that may require special management considerations or protection. Critical habitat also may include specific areas not occupied by the species but that have been determined to be essential for species conservation.

Critical habitat does not occur on the study area. The nearest critical habitats to the study area include San Diego ambrosia critical habitat, which is approximately 1.7 miles to the south of the study area (USFWS 2019).

4.2 STATE REGULATIONS

4.2.1 California Environmental Quality Act

Primary environmental legislation in California is found in CEQA and its implementing guidelines (State CEQA Guidelines), which require that projects with potential adverse effects (i.e., impacts) on the environment undergo environmental review. Adverse environmental impacts are typically mitigated as a result of the environmental review process in accordance with existing laws and regulations.

4.2.2 California Endangered Species Act

The CESA is similar to the FESA in that it contains a process for listing of species and regulating potential impacts to listed species. Section 2081 of the California ESA authorizes the CDFW to enter into a memorandum of agreement for take of listed species for scientific, educational, or management purposes. The MSHCP is the regional 2081 for this portion of the County, which includes the study area. The golden eagle (*Aquila chrysaetos*) and white-tailed kite are considered state fully protected species. Fully protected species may not be taken or possessed at any time, and no state licenses or permits may be issued for their take except for collecting the species necessary for scientific research and relocation of the bird species for the protection of livestock (Fish and Game Code Sections 3511, 4700, 5050, and 5515).

The Native Plant Protection Act (NPPA) enacted a process by which plants are listed as rare or endangered. The NPPA regulates the collection, transport, and commerce of plants that are listed. The California ESA followed the NPPA and covers both plants and animals that are determined to be endangered or threatened with extinction. Plants listed as rare under NPPA were designated threatened under the California ESA.

4.2.3 Protection of Raptor Species

Raptors (birds of prey) and owls and their active nests are protected by California Fish and Game Code Section 3503.5, which states that it is unlawful to take, possess, or destroy any birds of prey or to take, possess, or destroy the nest or eggs of any such bird unless authorized by the CDFW.

4.2.4 California Fish and Game Code, Section 1602

The California Fish and Game Code (Section 1600 et seq.) requires an agreement with the CDFW for projects affecting riparian and wetland habitats through the issuance of a Streambed Alteration Agreement.

4.3 LOCAL REGULATIONS

4.3.1 Multiple Species Habitat Conservation Plan Consistency

The MSHCP is a comprehensive multi-jurisdictional effort that includes the City and multiple other cities throughout the western portion of the County. Rather than addressing sensitive species on an individual basis, the MSHCP focuses on the conservation of 146 species, proposing a reserve system of approximately 500,000 acres and a mechanism to fund and implement the reserve system (Dudek 2003). Most importantly, the MSHCP allows participating entities to issue take permits for listed species

so that individual applicants need not seek their own permits from the USFWS and/or CDFW. The MSHCP was adopted on June 17, 2003, by the County Board of Supervisors. The Incidental Take Permit was issued by both the USFWS and CDFW on June 22, 2004. Section 3.6 above and Section 5.6 below demonstrate the project's consistency with the MSHCP. Any CDFW listed sensitive species that have potential to occur in the study area are included in the MSHCP Incidental Take Permit as shown on the CDFW List of covered species (CDFW 2014)

4.3.2 Stephens' Kangaroo Rat Habitat Conservation Plan

The Habitat Conservation Plan (HCP) for Stephens' kangaroo rat describes the conservation, mitigation, and monitoring measures that are implemented within core reserves. Within the HCP, there are seven core reserves totaling 41,221 acres for conservation of Stephens' kangaroo rat and associated habitat. The HCP provides a 30-year incidental take authorization for Stephens' kangaroo rat on lands within its boundaries, which includes 533,954 acres within the County and Cities of Corona, Hemet, Lake Elsinore, Moreno Valley, Murrieta, Perris, Riverside, and Temecula.

The study area is within the Stephens' kangaroo rat HCP, but is not located within any of the core reserves. Therefore, the project is required to pay a Stephens' kangaroo rat mitigation fee for incidental take authorization under the Stephens' kangaroo rat HCP.

4.3.3 City Heritage Tree Ordinance & Oak Tree Conservation Plan

The City has implemented regulatory measures to protect and preserve oak (*Quercus* spp.), California bay laurel (*Umbellularia californica*), California black walnut (*Juglans californica*), California holly (toyon [*Heteromeles arbutifolia*]), and California sycamore (*Platanus racemosa*) trees as well as other trees of special significant to the community (City of Temecula 2009). Each tree species has its own size requirement in order to qualify as a Heritage Tree (see Section 8.48.160 of the City's Municipal Code). The City's Heritage Tree Ordinance (Tree Ordinance) applies to the following situations:

1. Any development application for parcels larger than five acres in size that requires a discretionary permit;

2. Any tree designated as a Heritage Tree through the nomination process; or

3. Designated species pursuant to Section 8.48.160(A) of the Tree Ordinance located within General Plan Open Space areas, within riparian areas, within MSHCP Important Wildlife Corridor Linkage areas, or within Heritage Tree Grove areas.

Upon submittal of an application for a discretionary permit on parcels larger than five acres, a tree inventory is required as part of the conceptual landscape plans. The landscape plans must list and identify all trees located within the project site by their common and scientific names. Avoided Heritage Trees on the project site will be subject to preservation standards outlined in the City's Heritage Tree Preservation and Protection Guidelines, or a certified arborist or a licensed landscape architect can prepare a Heritage Tree Preservation and Protection Plan for each potential Heritage Tree to protect them during grading and construction activities and for the life of the project.

Damage to a Heritage Tree is prohibited by the Tree Ordinance and would result in issuance of a violation. Heritage Trees that are proposed for removal or relocation require a Heritage Tree Removal or Relocation Permit by the planning director or planning commission. Based on the planning director or

planning commissions review of the permit application, the following mitigation and/or protection measures may be required pursuance to Section 8.4.230 of the City's Municipal Code:

1. The relocation of the subject tree to another location on-site or off-site;

2. The on-site or off-site planting of one replacement tree of the same or similar species. A replacements tree must have the approximate size, age, and health as the Heritage Tree removed;

3. The on-site or off-site planting of two 48-inch box trees of the same species as the Heritage Tree remove, if (2) above is not feasible;

4. The initiation of an objectively observable maintenance and care program in accordance with a certified arborists' or licensed landscape architect's report to ensure the continued health and care of Heritage Trees on the property; or

5. Payment of a fee equal to the cost of procuring, planting, establishment, and maintaining one recement tree for every Heritage Tree removed. The cost will be based on either International Society of Arboriculture's (ISA) Guide for Plant Appraisal (Council of Tree and Landscape Appraisers 2000) by ISA's Standards for Valuation of Amenity Trees (1988).

The project area is less than 5.0 acres and therefore a discretionary permit is not required for the Project.

5.0 PROJECT EFFECTS

This section describes potential direct and indirect impacts associated with the proposed project. Direct impacts immediately alter the affected biological resources such that those resources are eliminated temporarily or permanently. Indirect impacts consist of secondary effects of a project, including noise, decreased water quality (e.g., through sedimentation, urban contaminants, or fuel release), fugitive dust, colonization of non-native plant species, animal behavioral changes, and night lighting. The magnitude of an indirect impact can be the same as a direct impact; however, the effect may take a longer time to become apparent.

The significance of impacts to biological resources present or those with potential to occur was determined based upon the sensitivity of the resource and the extent of the anticipated impacts. For certain highly sensitive resources (e.g., a federally listed species), any impact would be significant. Conversely, other resources that are of low sensitivity (e.g., species with a large, locally stable population in the County but declining elsewhere) could sustain some impact with a less than significant effect.

According to Appendix G of the CEQA Guidelines, project impacts to biological resources would be considered significant if they would:

(a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by CDFW or USFWS.

(b) Have a substantial adverse effect on any riparian habitat or sensitive natural community identified by local or regional plans, policies, regulations or by CDFW or USFWS.

(c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the CWA (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling hydrological interruption, or other means.

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

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

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

5.1 SENSITIVE SPECIES

5.1.1 Rare Plant Species

No Impacts

A total of 21 of the 23 rare plant species recorded within the vicinity of the study area were not considered to have a potential to occur based on geographic range, elevation range, and/or lack of suitable habitat (see Appendix E). The remaining two species (San Diego ambrosia and white rabbit-tobacco) were considered to have a potential to occur on the study area. San Diego ambrosia is a federally endangered species and is listed with a CRPR of 1B.1. This species is conditionally covered under the MSHCP. A habitat assessment and surveys for this species are only required if a project occurs within NEPSSA 2, which the study area is not located within a NEPSSA. White rabbit-tobacco is listed with a CRPR of 2B.2, but is not a federally- or state-listed species. Neither of these species were observed during any of the site visits that were conducted within suitable habitat within the blooming period for San Diego ambrosia (April through July) and white rabbit-tobacco (July through October). **Therefore, these species are presumed absent from the study area and the project would not impact any rare plant species.**

5.1.2 Sensitive Animal Species

Less than Significant Impacts with Mitigation Incorporated

Of the 25 sensitive animal species recorded within the vicinity of the study area, 17 species were considered to have no potential to occur on the study area due to lack of suitable habitat (see Appendix F). **Therefore, no significant impacts to these sensitive wildlife species are anticipated by the project.**

Eight of the 25 species were determined to have a potential to occur on the study area. Of these eight species, six species have a low potential to occur based on the presence of low quality and isolated habitat, limited acreage of habitat, surrounding development, and lack of recent observations within the

immediate vicinity of the study area. These species include Los Angeles pocket mouse, northwestern San Diego pocket mouse, San Diego black-tailed jackrabbit, Stephens' kangaroo rat, western mastiff bat (foraging only), and white-tailed kite. The remaining two species (BUOW and LBVI) are currently presumed absent from the study area based on negative focused survey results. Potential project impacts to these species are discussed in detail below.

Northwestern San Diego pocket mouse, San Diego black-tailed jackrabbit, Stephens' kangaroo rat, and white-tailed kite are fully covered species under the MSHCP. Los Angeles pocket mouse is a conditionally covered species under the MSHCP. Focused surveys for this species are only required if a project occurs within a Mammal Species Survey Area, which the study area is **not** within this survey area. With payment of the MSHCP Local Development Mitigation Fee (LDMF), no additional mitigation is required for potential impacts to these species. In addition, the study area is located within the Stephens' kangaroo rat HCP and is required to pay a Stephens' kangaroo rat mitigation fee for incidental take authorization under the Stephens' kangaroo rat HCP as mitigation. See Section 5.6.6 below for a more detailed discussion.

Western mastiff bat is not an MSHCP covered species and does not carry a federal or state listing as threatened or endangered. This species is listed as SSC by CDFW. The study area does not support suitable roosting habitat for this species. There is some potential for foraging habitat on the study area, although the habitat is considered low quality based on presence of surrounding development. This species was only recorded once within the Murrieta quadrangle on CNDDB, which was in 1991 approximately 1.25 miles to the southwest of the study area (CDFW 2019). **Based on the presence of surrounding development, lack of recent observations, and absence of suitable roosting habitat, no significant impacts to western mastiff bat are anticipated by the project.**

Burrowing Owl

BUOW is considered an SSC and MSHCP conditionally covered species. Since the study area supports suitable habitat for BUOW, focused surveys were conducted in accordance with the County's survey protocol (2006). **No BUOWs or BUOW sign were observed on the study area during the focused survey; therefore, BUOW is currently presumed absent from the study area.** A mitigation measure requiring a pre-construction survey and avoidance of active nests and/or relocation of BUOW (if BUOWs are observed) is included as BIO-1 below.

Least Bell's Vireo

The LBVI is a federally and state endangered species and an MSHCP conditionally covered species. Since the study area supports suitable habitat, focused surveys were conducted in accordance with USFWS' survey protocol (2001). No LBVIs were detected on the study area and this species is presumed currently absent from the study area. **Therefore, the project is not anticipated to impact LBVI.**

5.2 SENSITIVE VEGETATION COMMUNITIES

5.2.1 California Department of Fish and Wildlife Sensitive Vegetation Communities/Habitats

Less than Significant with Mitigation Incorporated

The study area supports 1.70 acres of southern willow scrub canopy, which is a sensitive community pursuant to CDFW (2018). Of the 1.70 acres of southern willow scrub that occur on the project site, the project would require permanent impacts to only 0.57 acre and temporary impacts to 0.23 acre of southern willow scrub. The remaining four communities (mule fat scrub, non-native grassland, disturbed, and developed) are not considered sensitive communities pursuant to CDFW. Proposed impacts to vegetation are shown in Table 4, *Impacts to Vegetation and Land Uses* and on Figure 9, *Impacts to Vegetation*.

Permanent impacts of 0.57 acre to southern willow scrub would be considered significant and require compensatory mitigation as part of the Section 1602 permitting requirements (see Section 5.2.2 below). Temporary impacts of 0.23 acre to southern willow scrub will be revegetated and returned to pre-project conditions following construction. As required by mitigation measure BIO-2, permanent impacts to southern willow scrub would be mitigated through on-site or off-site enhancement, restoration, and/or creation at a ratio of no less than 3:1.

Table 4
IMPACTS TO VEGETATION AND LAND USES

Vegetation Community	Permanent Impacts			Temporary Impacts		
	On-Site (acres)[1]	Off-Site (acres)[1]	Total (acres)[1]	On-Site (acres)[1]	Off-Site (acres)[1]	Total (acres)[1]
Mule Fat Scrub	0.01	0.00	**0.01**	0.00	0.00	**0.00**
Southern Willow Scrub[2]	0.56	0.01	**0.57**	0.19	0.04	**0.23**
Non-Native Grassland	3.01	0.31	**3.32**	0.03	0.00	**0.03**
Disturbed	0.00	0.30	**0.30**	0.00	0.01	**0.01**
Developed	0.00	0.13	**0.13**	0.00	0.00	**0.00**
TOTAL	**3.58**	**0.75**	**4.33**	**0.22**	**0.05**	**0.27**

[1] Acreages are rounded to the nearest hundredth.
[2] Sensitive habitats pursuant to CDFW's Natural Communities List (2018).

5.2.2 California Department of Fish and Wildlife Riparian Habitat and Streambed

Less than Significant with Mitigation Incorporated

Drainage Complex A is considered a jurisdictional streambed pursuant to Section 1602 of the CFG Code as regulated by CDFW. The project would result in permanent impacts to approximately 0.58 acre of CDFW jurisdiction on the study area, including 0.51 acre within Drainage A, 0.02 acre within Drainage A1, and 0.05 acre within Drainage A3 (Figure 10, *Impacts to Jurisdictional Features and MSHCP Riparian Areas*; Table 5, *Impacts to CDFW Jurisdiction*). The project would also result in temporary impacts to approximately 0.24 of CDFW jurisdiction on the study area, including 0.10 acre within Drainage A, 0.02 acre within Drainage A2, and 0.12 acre within Drainage A3.

Impacts to CDFW jurisdiction will require a Section 1602 Stream Alteration Agreement from the CDFW, as described in BIO-2 included in Section 6.0 below. Compensatory mitigation for permanent impacts to CDFW jurisdiction would be required as part of subsequent Section 1602 permitting requirements. Temporary impact areas within Drainage Complex A will be returned to pre-project topographic contours and revegetated following completion of construction.

Table 5
IMPACTS TO CDFW JURISDICTION

Drainage	Permanent Impacts			Temporary Impacts		
	On-Site (acres)[1]	Off-Site (acres)[1]	Total (acres)[1]	On-Site (acres)[1]	Off-Site (acres)[1]	Total (acres)[1]
A	0.51	0.00	**0.51**	0.08	0.02	**0.10**
A1	0.02	0.00	**0.02**	0.00	0.00	**0.00**
A2	0.00	0.00	**0.00**	0.02	0.00	**0.02**
A3	0.04	0.01	**0.05**	0.09	0.03	**0.12**
TOTAL	**0.57**	**0.01**	**0.58**	**0.19**	**0.05**	**0.24**

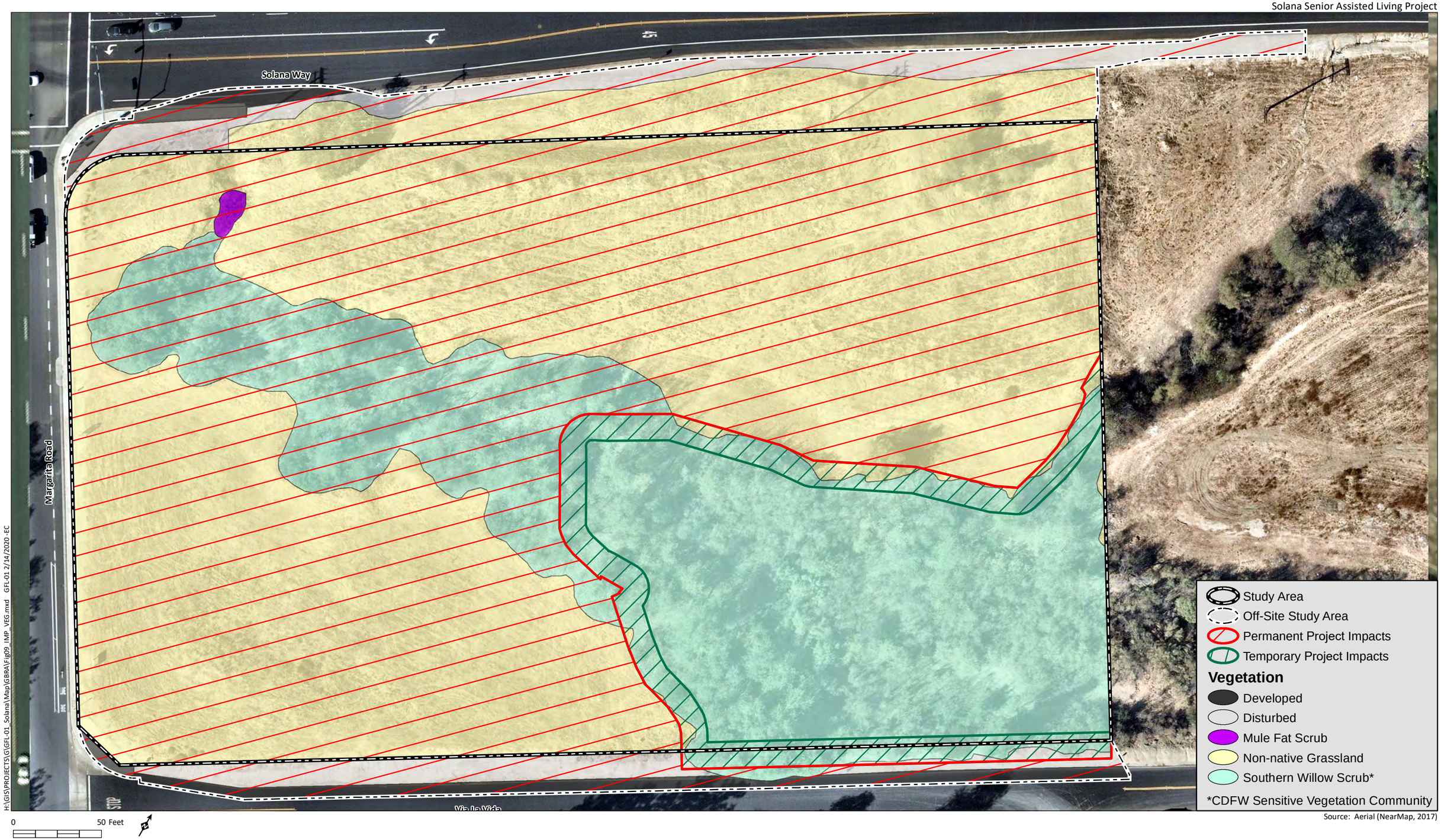
[1] Acreage is rounded to the nearest hundredth.

5.3 U.S. ARMY CORPS OF ENGINEERS/REGIONAL WATER QUALITY CONTROL BOARD JURISDICTION

Less than Significant with Mitigation Incorporated

Drainage Complex A is considered a jurisdictional streambed pursuant to EPA Old Rule and Sections 404/401 of the CWA as regulated by USACE and RWQCB, respectively. The project would result in permanent impacts to approximately 0.06 acre of WOTUS on the study area (Figure 9; Table 6, *Impacts to USACE/RWQCB Jurisdiction*). Permanent impacts are primarily proposed within Drainage A, although small permanent impacts (less than 0.01 acre) are also proposed within Drainages A1 and A3. Small temporary impacts (less than 0.01 acre) are proposed within Drainages A and A3.

Impacts to USACE/RWQCB jurisdiction will require a Section 404 Nationwide Permit from USACE and a Section 401 Water Quality Certification from RWQCB, as described in BIO-2 included in Section 6.0 below. Compensatory streambed mitigation for permanent impacts to USACE/RWQCB jurisdiction will be required as part of subsequent Section 404/401 permitting requirements. Temporary impact areas within Drainage Complex A will be returned to pre-project topographic contours following completion of construction. As stated previously the New Rule WOTUS definition will supersede once it becomes effective upon being published in the Federal Register.



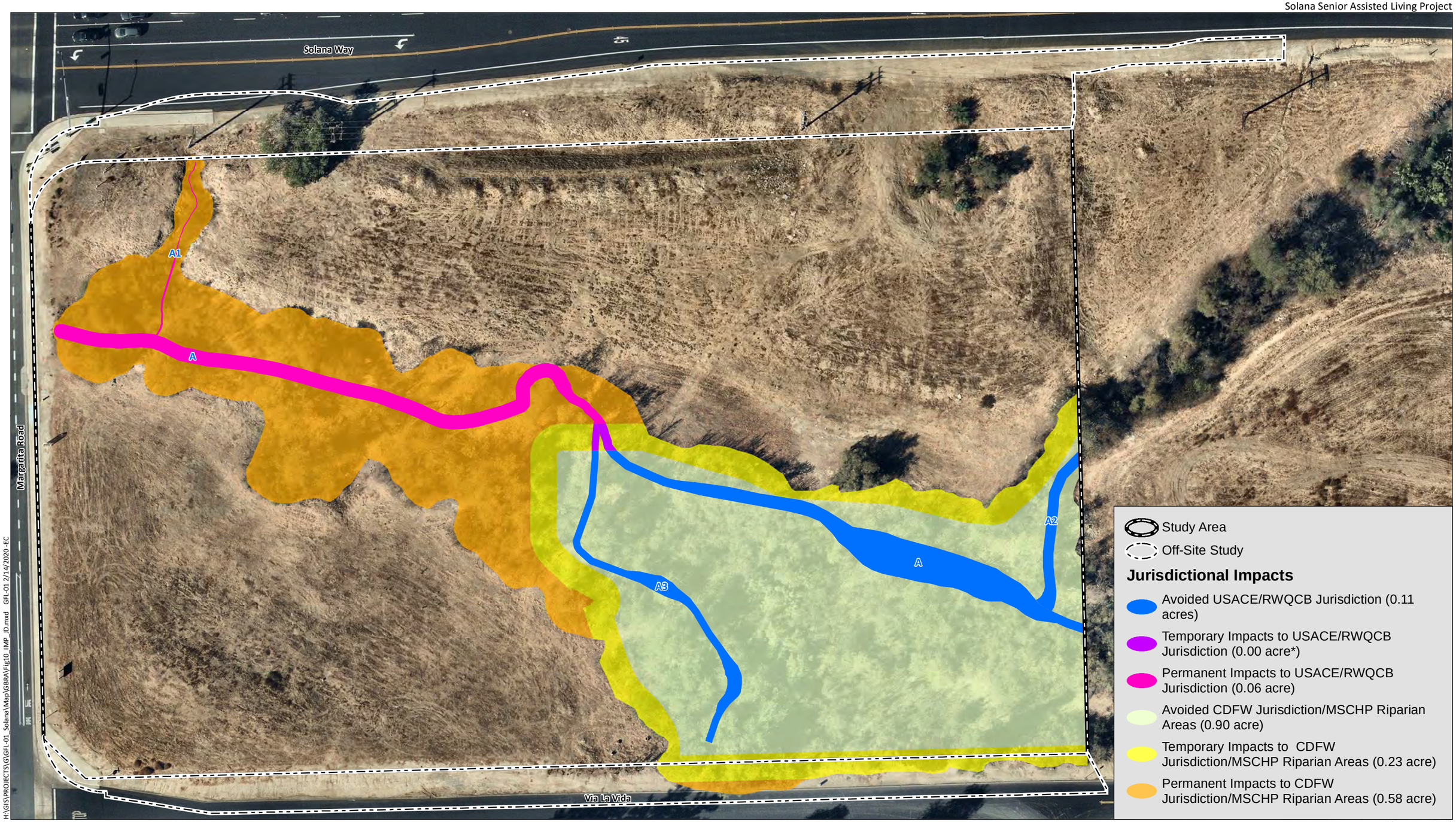
Source: Aerial (NearMap, 2017)

H:\GIS\PROJECTS\G\GFL-01_Solana\Map\GBRA\Fig09_IMP_VEG.mxd GFL-01 2/14/2020 -EC

HELIX Environmental Planning

Impacts to Vegetation

Figure 9



Source: Aerial (NearMap, 2017)

HELIX Environmental Planning

Impacts to Jurisdictional Features and MSHCP Riparian Areas

Figure 10

Table 6
IMPACTS TO USACE/RWQCB JURISDICTION

Drainage	Permanent Impacts[1] (acres)[2]	Temporary Impacts[1] (acres)[2]
A	0.06	<0.01[3]
A1	<0.01[4]	0.00
A2	0.00	0.00
A3	<0.01[5]	<0.01[6]
TOTAL	**0.06**	**<0.01**

[1] All existing jurisdiction and proposed impacts to waters of the U.S. are located on-site.
[2] Acreages are rounded to the nearest hundredth.
[3] Actual acreage is 0.002 acre.
[4] Actual acreage is 0.001 acre.
[5] Actual acreage is 0.00002 acre.
[6] Actual acreage is 0.001 acre.

5.4 WILDLIFE MOVEMENT AND MIGRATORY SPECIES

5.4.1 Wildlife Movement

No Impact

The study area is not part of a regional wildlife corridor and does not serve as a nursery site. The study area is not identified by the MSHCP (Dudek 2003) or South Coast Missing Linkages (South Coast Wildlands 2008) as being part of a local or regional corridor or linkage. The study area currently does not directly connect two or more large blocks of habitat and is constrained by existing development that surrounds the site. The study area supports some native riparian vegetation that may be used by smaller mammals and reptiles that are adapted to human disturbance to move locally throughout the study area. Bird species may fly over existing development to access the study area for foraging. **Therefore, the project will not significantly impact movement of wildlife or impede the use of native wildlife nursery sites.**

5.4.2 Migratory Species

Less than Significant Impacts with Mitigation Incorporated

Development of the proposed project could disturb or destroy active migratory bird nests, including eggs and young. Disturbance to or destruction of migratory bird eggs, young, or adults is in violation of the MBTA and is considered a potentially significant impact. Although suitable habitat for nesting birds on the study area is limited, herbaceous ground cover, shrubs, and trees located throughout the study area could provide habitat for protected nesting bird species during Migratory Bird Season. A mitigation measure is provided as BIO-3 in Section 6.0 below, which would ensure the project is in compliance with MBTA regulations.

5.5 LOCAL POLICIES AND ORDINANCES

No Impacts

The project would not conflict with the City's Heritage Tree Ordinance. The ordinance only applies to: (1) projects larger than five acres; (2) sites that support a Heritage Tree through a nomination process; or (3) sites that support designated species pursuant to Section 8.48.160(A) of the Tree Ordinance that are located within General Plan Open Space areas, within riparian areas, within MSHCP Important Wildlife Corridor Linkage areas, or within Heritage Tree Grove areas. **Since project site is less than five acres (4.70 acres), the project would not be required to submit a tree inventory as part of an application for a discretionary permit.** The study area does not support any trees that have been identified as a Heritage Tree through a nomination process. Although the study area does support riparian areas, only one tree species listed in Section 8.48.160(A) of the Tree Ordinance was observed on the study area. A single coast live oak tree (*Quercus agrifolia*) was observed within the off-site area along Via La Vida and is associated with Drainage A. In order to qualify as a Heritage Tree, an oak tree must be at least 18 inches in diameter measured at four feet above the natural grade at the base of the tree. **This oak tree does not meet the Tree Ordinance's definition of a Heritage Tree since it is 15.2 inches in diameter. Therefore, the project would not conflict with the City's Tree Ordinance and no additional measures are required.**

5.6 ADOPTED HABITAT CONSERVATION PLANS

Less than Significant Impacts with Mitigation Incorporated

As discussed in Section 3.6.1 above, the study area is within the Southwest Area Plan of the MSHCP. The study area is not located within or adjacent to an MSHCP Criteria Area; therefore, the study area is not subject to special conservation requirements that apply to cells and is not required to undergo the HANS process. The following sections demonstrate the project's compliance with MSHCP requirements.

5.6.1 Riparian/Riverine Areas and Vernal Pools (MSHCP Section 6.1.2)

The identification of MSHCP Riparian/Riverine resources is based on the potential for the habitat to support, or be a tributary to habitat that supports, Riparian/Riverine Covered Species. Riparian/Riverine Covered Species are identified in MSHCP Section 6.1.2. The MSHCP defines Riparian/Riverine habitat as "lands which contain Habitat dominated by trees, shrubs, or emergent mosses and lichens, which occur close to or which depend upon soil moisture from a nearby fresh water source; or areas with fresh water flow during all or a portion of the year" (Dudek 2003). The MSHCP defines Vernal Pools as "seasonal wetlands that occur in depression areas that have wetlands indicators of all three parameters (soils, vegetation, and hydrology) during the wetter portion of the growing season but normally lack wetlands indicators of hydrology and/or vegetation during the drier portion of the growing season" (Dudek 2003). Artificially created wetlands, except for those created intentionally to provide habitat or resulting from the creation of open waters or alteration of natural stream courses, are not considered MSHCP Vernal Pools.

Riparian Habitat

The MSHCP Riparian Areas mapped on the study area are equivalent to CDFW jurisdiction. Implementation of the proposed project would result in permanent impacts to approximately 0.58 acre and temporary impacts to approximately 0.24 acre of MSHCP Riparian habitat (Figure 9; Table 7, *Impacts to MSHCP Riparian Areas*).

Since the project proposes impacts to Riparian Areas, the project is required to prepare a Determination of Biologically Equivalent or Superior Preservation, which provides a detailed account of impacts and proposed mitigation to compensate for impacts. Mitigation for permanent impacts to the Riparian Areas would be met by implementing required mitigation for impacts to CDFW jurisdiction. Mitigation would include off-site enhancement, restoration, and/or creation at a ratio of no less than 3:1, as required by BIO-2 included in Section 6.0 below. Temporary impact areas within Drainage Complex A will be returned to pre-project topographic contours and revegetated following completion of construction.

Table 7
IMPACTS TO MSHCP RIPARIAN AREAS

Drainage	Permanent Impacts			Temporary Impacts		
	On-Site (acres)[1]	Off-Site (acres)[1]	Total (acres)[1]	On-Site (acres)[1]	Off-Site (acres)[1]	Total (acres)[1]
A	0.51	0.00	**0.51**	0.08	0.02	**0.10**
A1	0.02	0.00	**0.02**	0.00	0.00	**0.00**
A2	0.00	0.00	**0.00**	0.02	0.00	**0.02**
A3	0.04	0.01	**0.05**	0.09	0.03	**0.12**
TOTAL	**0.57**	**0.01**	**0.58**	**0.19**	**0.05**	**0.24**

[1] Acreage is rounded to the nearest hundredth.

Riparian/Riverine and Vernal Pool Species

No Riparian/Riverine or Vernal Pool plant species were observed on the study area during any of the site visits. The study area does not support suitable habitat for 11 of the 12 Riparian/Riverine or Vernal Pool animal species. The study area supports suitable habitat for LBVI; however, LBVI was not observed on the study area during focused surveys. **Therefore, no impacts to Riparian/Riverine or Vernal Pool species are anticipated by the project.**

As discussed above, the proposed project is consistent with MSHCP Section 6.1.2.

5.6.2 Narrow Endemic Plant Species (MSHCP Section 6.1.3)

The study area is not located within a NEPSSA; therefore, no focused surveys were required and the proposed project is consistent with Section 6.1.3 of the MSHCP.

5.6.3 Urban/Wildland Interface Guidelines (MSHCP Section 6.1.4)

Proposed developments adjacent to MSHCP Conservation Areas may create edge effects that can impact conserved biological resources. The MSHCP provides several guidelines that address potential indirect effects from proposed developments that are in proximity to MSHCP Conservation Areas. These guidelines include measures addressing quantity and quality of runoff generated by the development

(i.e., drainage and toxics), night lighting, noise, non-native invasive plant species, barriers to humans and animal predators, and grading/land development encroachment.

The study area does not occur adjacent to land targeted for conservation or existing MSHCP Conservation Areas. The nearest MSHCP Conservation Area is Constrained Linkage 13, which is approximately 1.3 miles to the southwest of the study area. Existing development separates the study area from Constrained Linkage 13.

5.6.3.1 Drainage

The project will incorporate measures to avoid discharge of untreated surface runoff into downstream waters. Measures will include those required for construction pursuant to the State Water Resources Control Board General Construction Storm Water Permit and the project Storm Water Pollution Prevention Program, while post-construction water quality measures will be implemented in compliance with the National Pollutant Discharge Elimination System, Municipal Storm Drain Permit requirements, and subsequent 401 Water Quality Certification from RWQCB for the project. The project will be designed to prevent the release of toxins, chemicals, petroleum products, exotic plant materials, or other elements that might degrade or harm biological resources or ecosystem processes downstream from the study area. In addition, post-construction Best Management Practices are intended to help ensure that post-project hydrologic conditions remain consistent with pre-project conditions, therefore minimizing the potential for downstream erosion and/or sedimentation that could otherwise result from implementation of the proposed project.

5.6.3.2 Toxics

Land uses that use chemicals or generate bio-products that are potentially toxic or may adversely affect wildlife species, habitat, or water quality shall incorporate measures to ensure that application of such chemicals does not result in discharge into downstream waters. Measures such as those employed to address drainage issues would be implemented by the proposed project to avoid the potential impacts of toxics.

5.6.3.3 Lighting

The study area is not located within or directly adjacent to an MSHCP Conservation Area. The nearest Conservation Area is located 1.3 miles to the southwest of the study area. Therefore, construction lighting and ambient lighting from the proposed development would not reach the Conservation Area.

5.6.3.4 Noise

The project does not occur directly adjacent to MSHCP Conservation Areas, which are separated by agricultural fields and/or existing development. Therefore, noise standards are not applicable.

5.6.3.5 Invasives

The project shall not use invasive plants for erosion control, landscaping, wind rows, or other purposes. A mitigation measure (BIO-4) is provided in Section 6.0 below, which requires the project to comply with the MSHCP and avoid the use of invasive, non-native plants in accordance with MSHCP Table 6.2.

5.6.3.6 Barriers

Since the study area is not directly adjacent to the MSHCP Conservation Area, barriers or signage are not necessary.

5.6.3.7 Grading/Land Development

The project is not adjacent to an existing or proposed MSHCP Conservation Areas. Therefore, manufactured slopes associated with proposed site development will not extend into an MSHCP Conservation Area.

5.6.4 Additional Surveys (MSHCP Section 6.3.2)

The study area is not within a CASSA or an Amphibian or Mammal Species Survey Area. No impacts to CASSA species or sensitive amphibian or mammal species are proposed.

The study area is within the MSHCP BUOW Survey Area and supports suitable habitat. A focused survey was conducted in accordance with the County's survey protocol (2006). No BUOWs or BUOW sign were observed during the focused survey. Due to the presence of suitable habitat, a pre-construction survey is required within 30 days of ground disturbance pursuant to the MSHCP. A mitigation measure requiring a pre-construction survey and avoidance of active nests and/or relocation of BUOW (if BUOWs are observed) is included as BIO-1 in Section 6.0 below.

As discussed above, the proposed project is consistent with MSHCP Section 6.3.2.

5.6.5 Fuels Management (MSHCP Section 6.4)

The property is not adjacent to an MSHCP Conservation Area. Therefore, fuel modification impacts would not extend into a conservation area. The project is consistent with MSHCP Section 6.4.

5.6.6 Multiple Species Habitat Conservation Plan and Stephens' Kangaroo Rat Fees

In order for the project to participate in the MSHCP, the project proponent is required to pay a LDMF in order to finance the acquisitions of conservation areas to provide habitat for MSHCP covered species (County 2003). The LDMF must be paid prior to issuance of a building permit. The applicant shall pay the LDMF as determined by the County. Final fee credits shall be determined through coordination with the County.

The study area is also within the Stephens' kangaroo rat HCP, but is not located within any of the core reserves (County 1996). Therefore, the project is required to pay a Stephens' kangaroo rat mitigation fee for incidental take authorization under the Stephens' kangaroo rat HCP.

A mitigation measure (BIO-5) is provided in Section 6.0, which requires the project proponent to pay the MSHCP LDMF and Stephens' kangaroo rat HCP fees.

6.0 MITIGATION MEASURES

The following provides recommended measures intended to minimize or avoid impacts to biological resources:

BIO-1 **Burrowing Owl**: In compliance with the MSHCP, a pre-construction survey shall be conducted on the study area within 30 days prior to ground disturbance to determine presence of BUOW. If the pre-construction survey is negative and BUOW is confirmed absent, then construction activities (i.e., earthwork, clearing, and grubbing) shall be allowed to commence and no avoidance or minimization measures would be required.

If BUOW is observed during the pre-construction survey, active burrows shall be avoided by the project in accordance with the California Department of Fish and Wildlife's (CDFW) *Staff Report on Burrowing Owl Mitigation* (2012) or CDFW's most recent guidelines. The Project Proponent shall immediately inform the Western Riverside County Regional Conservation Authority (RCA) of BUOW observations. A BUOW Protection and Relocation Plan (plan) shall be prepared by a qualified biologist, which must be sent for approval by RCA prior to initiating ground disturbance. The RCA will coordinate directly with CDFW as needed to ensure that the plan is consistent with the MSHCP and CDFW guidelines. The plan shall detail avoidance measures that shall be implemented during construction and passive or active relocation methodology. Relocation shall only occur outside of the nesting season (September 1 through January 31). The RCA may require translocation sites to be created within the MSHCP Conservation Area for the establishment of new colonies. If required, the translocation sites must take into consideration unoccupied habitat areas, presence of burrowing mammals, existing colonies, and effects to other MSHCP Covered Species in order to successfully create suitable habitat for BUOW. The translocation sites must be developed in consultation with RCA. If required, translocation sites would also be described in the agency-approved plan.

BIO-2 **Jurisdictional Resources**: Prior to issuance of a grading permit for impacts to jurisdictional resources, the Project Proponent shall obtain regulatory permits from USACE, RWQCB, and CDFW (collectively, the "Resource Agencies"). Temporary impacts to jurisdictional resources shall be returned to pre-project contours once the project has been completed. Compensatory mitigation for permanent impacts to jurisdiction shall be required as part of subsequent permitting requirements. Permanent impacts to jurisdictional resources shall be mitigated through on-site or off-site enhancement, which may include a one-time mitigation fee to an offsite Mitigation Land Bank, restoration, and/or creation of jurisdictional streambed at ratio of no less than 3:1 The following minimization measures will be implemented during construction:

- Use of standard Best Management Practices (BMPs) to minimize the impacts during construction.
- Construction-related equipment will be stored in developed areas, outside of drainages.

- Source control and treatment control BMPs will be implemented to minimize the potential contaminants that are generated during and after construction. Water quality BMPs will be implemented throughout the project to capture and treat potential contaminants.

- To avoid attracting predators during construction, the project shall be kept clean of debris to the extent possible. All food-related trash items shall be enclosed in sealed containers and regularly removed from site.

- Employees shall strictly limit their activities, vehicles, equipment and construction material to the proposed project footprint, staging areas, and designated routes of travel.

- Exclusion fencing should be maintained until the completion of construction activities.

BIO-3 **Nesting Birds:** Construction activities (i.e., earthwork, clearing, and grubbing) shall occur outside of the general bird nesting season for migratory birds, which is March 1 through August 31 for songbirds and January 15 to August 31 for raptors.

If construction activities (i.e., earthwork, clearing, and grubbing) must occur during the general bird nesting season for migratory birds and raptors (January 15 and August 31), a qualified biologist shall be retained to perform a pre-construction survey of potential nesting habitat to confirm the absence of active nests belonging to migratory birds and raptors afforded protection under the MBTA and CFG Code. The pre-construction survey shall be performed no more than seven days prior to the commencement of construction activities. The results of the pre-construction survey shall be documented by the qualified biologist. If construction is inactive for more than seven days, an additional survey shall be conducted.

If the qualified biologist determines that no active migratory bird or raptor nests occur, the activities shall be allowed to proceed without any further requirements. If the qualified biologist determines that an active migratory bird or raptor nest is present, no impacts within 300 feet (500 feet for raptors) of the active nest shall occur until the young have fledged the nest and the nest is confirmed to no longer be active, or as determined by the qualified biologist. The biological monitor may modify the buffer or propose other recommendations in order to minimize disturbance to nesting birds.

BIO-4 **MSHCP Landscaping Restrictions**: In accordance with MSHCP Section 6.1.4, no species listed in Table 6-2, *Plants that Should Be Avoided Adjacent to the MSHCP Conservation Area*, shall be used in the project landscape plans (including hydroseed mix used for interim erosion control).

BIO-5 **Habitat Conservation Plan Fees**: The project applicant is subject to the MSHCP LDMF and the Stephens' Kangaroo Rat HCP Fee, which shall be paid prior to issuance of any grading permit.

7.0 CERTIFICATION/QUALIFICATION

The following individuals contributed to the fieldwork and/or preparation of this report:

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Appendix A

Plant Species Observed

Appendix A
Plant Species Observed

Family	Scientific Name	Common Name
ANGIOSPERMS – EUDICOTS		
Asteraceae	*Ambrosia psilostachya*	western ragweed
	Baccharis pilularis	coyote brush
	Baccharis salicifolia	mule fat
	*Carduus pycnocephalus**	Italian thistle
	Corethrogyne filaginifolia	common sandaster
	Heterotheca grandiflora	telegraph weed
	Pseudognaphalium californicum	California everlasting
	*Silybum marianum**	milk thistle
Boraginaceae	*Amsinckia intermedia*	rancher's fiddleneck
	Heliotropium curassavicum var. *occulatum*	salt heliotrope
Brassicaceae	*Hirschfeldia incana**	short-pod mustard
	*Lepidium didymum**	wart cress
	*Lepidium latifolium**	perennial pepperweed
	*Sisymbrium irio**	London rocket
Chenopodiaceae	*Chenopodium murale**	nettle-leaf goosefoot
	*Salsola tragus**	Russian thistle
Fabaceae	*Acmispon americanus*	Spanish-clover
	Lupinus sparsiflorus	Coulter's lupine
	*Medicago polymorpha**	burclover
	*Melilotus albus**	white sweet clover
	*Vicia villosa**	winter vetch
Fagaceae	*Quercus agrifolia*	coast live oak
Geraniaceae	*Erodium cicutarium**	redstem filaree
Myrsinaceae	*Lysimachia arvensis**	scarlet pimpernel
Oleaceae	*Fraxinus uhdei**	shamel ash
Polygonaceae	*Eriogonum fasciculatum*	buckwheat
	*Rumex crispus**	curly dock
Salicaceae	*Populus fremontii* ssp. *fremontii*	Fremont cottonwood
	Salix exigua	narrow-leaved willow
	Salix gooddingii	Goodding's black willow
	Salix laevigata	red willow
	Salix lasiolepis	arroyo willow
Tamaricaceae	*Tamarix ramosissima**	saltcedar
ANGIOSPERMS – MONOCOTS		
Poaceae	*Avena barbata**	slender oat
	*Bromus diandrus**	common ripgut grass
	*Bromus hordeaceus**	soft brome
	Bromus madritensis ssp. rubens*	red brome
	*Festuca myuros**	fescue
	*Hordeum murinum**	hare barley
	*Schismus barbatus**	Mediterranean grass

*Non-native species

Appendix B

Animal Species Observed or Detected

Appendix B
Animal Species Observed or Detected

Order	Family	Scientific Name	Common Name
Birds			
Accipitriformes	Accipitridae	*Accipiter cooperii*	Cooper's hawk
		Buteo jamaicensis	red-tailed hawk
Apodiformes	Trochilidae	*Calypte anna*	Anna's hummingbird
Columbiformes	Columbidae	*Zenaida macroura*	mourning dove
Passeriformes	Aegithalidae	*Psaltriparus minimus*	bushtit
	Alaudidae	*Eremophila alpestris*	horned lark
	Corvidae	*Aphelocoma californica*	California scrub-jay
		Corvus brachyrhynchos	American crow
	Fringillidae	*Haemorhous mexicanus*	house finch
		Spinus psaltria	lesser goldfinch
		Spinus tristis	American goldfinch
	Icteridae	*Icterus cucullatus*	hooded oriole
	Mimidae	*Mimus polyglottos*	northern mockingbird
	Parulidae	*Setophaga coronata*	yellow-rumped warbler
	Passerellidae	*Melozone crissalis*	California towhee
	Troglodytidae	*Thryomanes bewickii*	Bewick's wren
	Turdidae	*Sialia mexicana*	western bluebird
	Tyrannidae	*Empidonax difficilis*	pacific-slope flycatcher
		Sayornis nigricans	black phoebe
		Sayornis saya	Say's phoebe
		Tyrannus verticalis	western kingbird
		Tyrannus vociferans	Cassin's kingbird
Piciformes	Picidae	*Picoides nuttallii*	Nuttall's woodpecker
Mammals			
Canivora	Canidae	*Canis latrans*	coyote
Lagomorpha	Leporidae	*Sylvilagus bachmani*	brush rabbit
Rodentia	Sciuridae	*Otospermophilus beecheyi*	California ground squirrel

Appendix C

Site Photographs

Photograph 1: View of the non-native grassland habitat in the northern portion of the study area, facing southwest.

Photograph 2: View of the mule fat scrub habitat in the eastern portion of the study area, facing northeast.

Photograph 3: View of the southern willow scrub habitat near the center of the study area, facing north.

Photograph 4: View of the non-native grassland habitat in the southern portion of the study area, facing southwest.

See Figure 5 for photograph locations.

Source: HELIX 2019

Appendix D

Drainage Photographs

Photograph 1: View of the mid-reach of Drainage A, facing southwest (downstream).

Photograph 2: View of the downstream portion of Drainage A, facing southwest (downstream). Drainage A exits the study area via a culvert that runs under Margarita Road, which can be seen in the distance.

Photograph 3: View of Drainage A1, facing northeast (upstream).

Photograph 4: View of Drainage A3, facing west (downstream).

See Figure 6 for photograph locations.

Source: HELIX 2019

Appendix E

Rare Plant Species Potential to Occur

Appendix E
Rare Plant Species Potential To Occur[1]

Species Name	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Abronia villosa var. *aurita*	chaparral sand-verbena	CRPR 1B.1	Small annual herb. Occurs on sandy floodplains or flats in generally inland, arid areas of sage scrub and open chaparral. Elevation range 0-1600 m. Flowering period Mar-Aug.	**None.** Although the study area supports sandy soils, there are no chaparral or sage scrub dominated communities.
Almutaster pauciflorus	alkali marsh aster	CRPR 2B.2	Perennial herb. Occurs in meadows and seeps on alkaline soil. Elevation range 200-700 m. Flowering period Jun-Oct.	**None.** The study area does not support meadows, seeps, or alkaline soils.
Ambrosia pumila	San Diego ambrosia	FE CRPR 1B.1 MSHCP Covered Species (b)	Small perennial herb. Occurs on clay, sandy loam, and sometimes alkaline soils. Found in grasslands, valley bottoms, and dry drainages. Can occur on slopes, disturbed places, in coastal sage scrub and chaparral. Elevation range 50-600 m. Flowering period Apr-Jul.	**Presumed Absent.** The study area supports low-quality habitat based on the presence of some mapped sandy loam soils and this species affinity for disturbance. This species was recorded in CNDDB in 2010, approximately 1.8 miles to the south of the study area. This species was not observed on the study area during any site visits.
Arctostaphylos rainbowensis	rainbow manzanita	CRPR 1B.1 MSHCP Covered Species (e)	Large conspicuous shrub. Southern mixed chaparral is preferred habitat with a relatively dense canopy from 6 to 8 feet. Elevation range 150-800 m. Flowering period Jan-Feb.	**None.** The study area does not support dense mixed chaparral habitat.

Appendix E (cont.)
Rare Plant Species Potential To Occur[1]

Species Name	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Brodiaea orcuttii	Orcutt's brodiaea	CRPR 1B.1 MSHCP Covered Species	Perennial herb. Occurs in vernally moist grasslands, mima mound topography, and vernal pool periphery are preferred habitat. Occasionally will grow on streamside embankments in clay soils. Elevation range 0-1600 m. Flowering period Apr-Jul.	**None.** The study area does not support vernally moist grasslands, mima mounds, or vernal pools.
Brodiaea santarosae	Santa Rosa basalt brodiaea	CRPR 1B.2	Small perennial herb. Occurs in soils derived from Santa Rosa Basalt within grassland habitat. Elevation range 580-1045 m. Flowering period May-Jun.	**None.** The study area does not support Santa Rosa Basalt. The study area is below the elevation range of this species.
Calochortus weedii var. *intermedius*	intermediate mariposa lily	CRPR 1B.2 MSHCP Covered Species	Medium perennial herb. Occurs on dry, rocky slopes within openings in chaparral, coastal scrub, and grassland habitats. Elevation range 0-680 m. Flowering period Jun-Jul.	**None.** The study area does not support rocky slopes.
Centromadia pungens ssp. *laevis*	smooth tarplant	CRPR 1B.1 MSHCP Covered Species (d)	Medium annual herb. Occurs within valley and foothill grasslands, particularly near alkaline locales. Elevation range 90-500 m. Flowering period Apr-Sep.	**None.** The study area does not have mapped alkaline soils.

Appendix E (cont.)
Rare Plant Species Potential To Occur[1]

Species Name	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Chorizanthe parryi var. *parryi*	Parry's spineflower	CRPR 1B.1 MSHCP Covered Species (e)	Small annual herb. Occurs in sandy soil on flats and foothills in mixed grassland, coastal sage scrub, and chaparral communities. Elevation range 90-800 m. Flowering period May-Jun.	**None.** Although the study area supports sandy soils, there are no chaparral or sage scrub dominated communities.
Chorizanthe polygonoides var. *longispina*	long-spined spineflower	CRPR 1B.2 MSHCP Covered Species	Small annual herb. Occurs within clay lenses largely devoid of shrubs. Can be occasionally seen on vernal pool and even montane meadows peripheries near vernal seeps. Elevation range 30-1500 m. Flowering period Apr-Jun.	**None.** The study area does not support clay lenses, vernal pools, montane meadows, or seeps.
Clinopodium chandleri	San Miguel savory	CRPR 1B.2 MSHCP Covered Species (b)	Medium perennial herb. Occurs on Gabbro and metavolcanic soils in interior foothills, chaparral, and oak woodland. Elevation range 0-1100 m. Flowering period Mar-Jul.	**None.** The study area does not support suitable gabbro/metavolcanic soils or chaparral/oak woodland habitats.
Eryngium aristulatum var. *parishii*	San Diego button-celery	FE/SE CRPR 1B.1 MSHCP Covered Species	Small annual or perennial herb. Occurs in vernal pools or mima mound areas with vernally moist conditions are preferred habitat. Elevation range 0-705 m. Flowering period May-Jun.	**None.** The study area does not support vernal pools or mima mounds.
Hordeum intercedens	vernal barley	CRPR 3.2 MSHCP Covered Species	Small annual grass. Saline flats and depressions in grasslands or in vernal pool basins. Elevation range 5-1000 m. Flowering period Mar.-Jun.	**None**. The study area does not support saline flats, depressional areas, or vernal pool basins.

Appendix E (cont.)
Rare Plant Species Potential To Occur[1]

Species Name	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Horkelia cuneata var. *puberula*	mesa horkelia	CRPR 1B.1	Medium perennial herb. Occurs in sandy or gravelly areas within chaparral, coastal sage scrub, and coastal mesas. Elevation range 70-870. Flowering period Mar-Jul.	**None.** Although the study area supports sandy soils, there are no chaparral or sage scrub dominated communities.
Juncus luciensis	Santa Lucia dwarf rush	CRPR 1B.2	Small annual grass-like herb. Occurs in mesic sandy soils within seeps, meadows, vernal pools, streams, and roadsides. Elevation 300-1900 m. Flowering period Apr-Jul.	**None.** The study area does not support suitable mesic habitat.
Lasthenia glabrata ssp. *coulteri*	Coulter's goldfields	CRPR 1B.1 MSHCP Covered Species (d)	Medium annual herb. Occurs in coastal salt marsh, upper end of tidal inundation areas, and vernal pools. Elevation range 0-1000 m. Flowering period Apr-May.	**None.** The study area does not support coastal habitat or vernal pools.
Myosurus minimus ssp. *apus*	little mousetail	CRPR 3.1 MSHCP Covered Species (d)	Small annual herb. Vernal pools and alkaline marshes. This cryptic species typically grows in the deeper portions of vernal pool basins, sprouting immediately after the surface water has evaporated. Elevation range 20-640 m. Flowering period Mar-Jun.	**None.** The study area does not support vernal pool or marsh habitat.

Appendix E (cont.)
Rare Plant Species Potential To Occur[1]

Species Name	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Navarretia fossalis	spreading navarretia	FT CRPR 1B.1 MSHCP Covered Species (b)	Small annual herb. Occurs in vernal pools, vernal swales, or roadside depressions. Population size is strongly correlated with rainfall. Depth of pool appears to be a significant factor as this species is rarely found in shallow pools. Elevation range 30-1300 m. Flowering period Apr-Jun.	**None.** The study area does not support vernal pools, swales, or roadside depressions.
Navarretia prostrata	prostrate vernal pool navarretia	CRPR 1B.1 MSHCP Covered Species (d)	Small annual herb. Occurs in alkaline floodplain, meadows, seeps, and vernal pools within coastal scrub and valley and foothill grassland. Elevation range below 700 m. Flowering period Apr-Jul.	**None.** The study area does not support vernal pool or meadow habitat.
Orcuttia californica	California Orcutt grass	FE/SE CRPR 1B.1 MSHCP Covered Species (b)	Small annual herb. Occurs in or near vernal pools. This species tends to grow in wetter portions of the vernal pool basin but does not show much growth until the basins become somewhat desiccated. Elevation range 0-700 m. Flowering period Apr-Aug.	**None.** The study area does not support vernal pools.
Pseudognaphalium leucocephalum	white rabbit-tobacco	CRPR 2B.2	Medium biennial or short-lived perennial herb. Occurs in sandy and gravelly benches, dry stream and canyon bottoms within woodland, coastal scrub, and chaparral. Elevation range below 500 m. Flowering period Jul-Oct.	**Presumed Absent.** The study area supports a small area of dry streambed habitat. This species was recorded in CNDDB in 2006, approximately 5.75 miles to the southeast of the study area. This species was not observed on the study area during any site visits.

Appendix E (cont.)

Rare Plant Species Potential To Occur[1]

Species Name	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Scutellaria bolanderi ssp. *austromontana*	southern mountain skullcap	CRPR 1B.2	Medium perennial herb. Occurs within gravelly soils along streambanks in oak and pine woodlands. Elevation 425-2000 m. Flowering period Jun-Aug.	**None.** The study area does not support oak or pine woodland habitats.
Symphyotrichum defoliatum	San Bernardino aster	CRPR 1B.2	Large perennial herb. Occurs in vernally mesic soils within cismontane woodland, coastal scrub, lower montane coniferous forest, meadows and seeps, marshes and swamps, grasslands, streams, springs, and disturbed ditches. Elevation range 0-2050 m. Flowering period Jul-Nov.	**None.** The study area does not support vernally mesic soils.

Source: HELIX (2019)

[1] Sensitive species reported within the Murrieta quadrangle based on a database search conducted on CNDDB and CNPS.

[2] Listing is as follows: F = Federal; S = State of California; E = Endangered; T = Threatened.
CRPR = California Rare Plant Rank: 1A – presumed extinct; 1B – rare, threatened, or endangered in California and elsewhere; 2A – rare, threatened, or endangered in California and elsewhere; 2B – rare, threatened, or endangered in California but more common elsewhere. Extension codes: .1 – seriously endangered; .2 – moderately endangered; .3 – not very endangered. MSHCP Conditionally Covered Species (a) through (f): (a) surveys may be required for species as part of wetland mapping (MSHCP Section 6.1.2); (b) surveys may be required for species within Narrow Endemic Plant Species Survey Area (MSHCP Section 6.1.3); (c) surveys may be required for species within locations shown on survey maps (MSHCP Section 6.3.2); (d) surveys may be required for species within Criteria Area Species Survey Area (MSHCP Section 6.3.2); (e) covered species will be considered to be covered species adequately conserved when conservation requirements identified in species-specific conservation objectives have been met (MSHCP Table 9-3); and (f) covered species will be conserved covered species adequately conserved when a Memorandum of Understanding is executed with the Forest Service that addresses management for these species on Forest Service Land (MSHCP Table 9-3).

[3] Potential to Occur is assessed as follows: **None**: Habitat suitable for species survival does not occur on the study area, the study area is not within geographic range of the species, and/or the study area is not within the elevation range of the species; **Low**: Suitable habitat is present on the study area but of low quality and/or small extent. The species has not been recorded recently on or near the study area. Although the species was not observed during surveys for the current project, the species cannot be excluded with certainty; **Moderate**: Suitable habitat is present on the study area and the species was recorded recently near the study area; however, the habitat is of moderate quality and/or small extent. Although the species was not observed during surveys for the current project, the species cannot be excluded with certainty; **High**: Suitable habitat of sufficient extent is present on the study area and the species has been recorded recently on or near the study area, but was not observed during surveys for the current project. However, focused/protocol surveys are not required or have not been completed; Presumed **Present**: The species was observed during focused surveys for the current project and is assumed to occupy the study area; **Presumed Absent**: Suitable habitat is present on the study area but focused surveys for the species were negative.

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Appendix F

Sensitive Animal Species Potential to Occur

Appendix F
Sensitive Animal Species Potential to Occur[1]

Species Name	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Invertebrates				
Branchinecta lynchi	vernal pool fairy shrimp	FT MSHCP Covered Species (a)	Most commonly found in swale, earth slump, or basal-flow depression pools in unplowed grasslands. Requires cool-water pools.	**None.** The study area does not support vernal pools.
Branchinecta sandiegoensis	San Diego fairy shrimp	FE	Most commonly found in swale, earth slump, or depression pools in unplowed grasslands. Requires cool-water pools.	**None.** The study area does not support vernal pools.
Euphydryas editha quino	Quino checkerspot butterfly	FE MSHCP Covered Species	Primary larval host plants in San Diego are dwarf plantain (*Plantago erecta*) at lower elevations, woolly plantain (*P. patagonica*) and white snapdragon (*Antirrhinum coulterianum*) at higher elevations. Owl's clover (*Castilleja exserta*) is considered a secondary host plant if primary host plants have senesced. Potential habitat includes vegetation communities with areas of low-growing and sparse vegetation. These habitats include open stands of sage scrub and chaparral, adjacent open meadows, old foot trails and dirt roads.	**None.** The study area does not support this species' host plant.
Streptocephalus woottoni	Riverside fairy shrimp	FE MSHCP Covered Species (a)	Typically requires deep vernal pools and seasonal wetlands at least 30 centimeters deep.	**None.** The study area does not support vernal pools.

Appendix F (cont.)
Sensitive Animal Species Potential to Occur[1]

Species Name	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Fish				
Gila orcuttii	arroyo chub	SSC MSHCP Covered Species	Prefers slow moving streams or backwaters with sand or mud bottoms. Streams are typically deeper than 40 centimeters (16 inches). Primary food source is aquatic vegetation and invertebrates.	**None.** The study area does not support perennial streams.
Amphibians				
Spea hammondii	western spadefoot	SSC MSHCP Covered Species	Occurs in open coastal sage scrub, chaparral, and grassland, along sandy or gravelly washes, floodplains, alluvial fans, or playas; require temporary pools for breeding and friable soils for burrowing; generally excluded from areas with bullfrogs (*Rana catesbiana*) or crayfish (*Procambarus* spp.)	**None.** The study area does not support temporary pools required for this species to breed.
Taricha torosa	Coast Range newt	SSC MSHCP Covered Species	Breeds in ponds, reservoirs, and slow-moving stream pools; often found in riparian forest, woodlands, chaparral, or grassland within one kilometer of breeding habitat.	**None.** The study area does not support suitable breeding within one kilometer of the study area.
Reptiles				
Arizona elegans occidentalis	California glossy snake	SSC	Most common in desert habitats, but also occurs in chaparral, sagebrush, valley-foothill hardwood, pine-juniper, and annual grassland. Associated with sandy open areas with sparse shrub cover, but can also occur in rocky habitats.	**None.** Although the study area supports non-native grassland, this species is not expected to occur since the study area is surrounded by development and does not connect to any larger open space areas.

Appendix F (cont.)
Sensitive Animal Species Potential to Occur[1]

Species Name	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Crotalus ruber	red diamond rattlesnake	SSC MSHCP Covered Species	Occurs in chaparral, coastal sage scrub, along creek banks, particularly among rock outcrops or piles of debris with a supply of burrowing rodents for prey.	**None.** Although the study area supports creek banks, this species is not expected to occur since the study area is surrounded by development and does not connect to any larger open space areas.
Emys marmorata	western pond turtle	SSC MSHCP Covered Species	Almost entirely aquatic; occurs in freshwater marshes, creeks, ponds, rivers and streams, particularly where basking sites, deep water retreats, and egg laying areas are readily available.	**None.** The study area does not support any aquatic features.
Phrynosoma blainvillii	coast horned lizard	SSC MSHCP Covered Species	Coastal sage scrub and open areas in chaparral, oak woodlands, and coniferous forests with sufficient basking sites, adequate scrub cover, and areas of loose soil; require native ants, especially harvester ants (*Pogonomyrmex* spp.), and are generally excluded from areas invaded by Argentine ants (*Linepithema humile*).	**None.** The study area does not support chaparral, oak woodlands, or coniferous forest.
Thamnophis hammondii	two-striped gartersnake	SSC	Occurs along perennial and intermittent streams bordered by dense riparian vegetation. Occasionally occurs in artificially created aquatic habitats, such as manmade lakes or stock ponds.	**None.** The study area does not support perennial, intermittent stream, or artificially created aquatic habitats.

Appendix F (cont.)
Sensitive Animal Species Potential to Occur[1]

Species Name	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Birds				
Aquila chrysaetos	golden eagle	SFP MSHCP Covered Species	Typical foraging habitat includes grassy and open, shrubby habitats. Generally nests on remote cliffs; requires areas of solitude at a distance from human habitation.	**None.** The study area does not support suitable cliff habitat for nesting and the non-native grassland on the study area is too small to offer suitable foraging habitat. The site is surrounded by development, which would preclude this species from occurring on the study area.
Athene cunicularia	burrowing owl	SSC MSHCP Covered Species (c)	Typical habitat is grasslands, open scrublands, agricultural fields, and other areas where there are ground squirrel burrows or other areas in which to burrow.	**Presumed Absent.** Although suitable habitat is present on the study area, burrowing owl was not observed during the focused surveys performed between April and August 2018, or during surveys performed in 2015.

Appendix F (cont.)
Sensitive Animal Species Potential to Occur[1]

Species Name	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Buteo swainsoni	Swainson's hawk	ST MSHCP Covered Species	Breeds in open grassland with scattered trees or groves within agricultural/ranch lands. Forages for small mammals, reptiles, birds, and insects in adjacent grassland and agricultural fields.	**None.** The study area does not support scattered trees or agricultural/ranch lands suitable for nesting. This species is not known to nest in southern California, except for populations in the Antelope Valley and Mojave Desert. The non-native grassland on the study area is too small to offer suitable foraging habitat.
Elanus leucurus	white-tailed kite	SFP MSHCP Covered Species	Nests in trees with dense canopies within open grasslands, woodlands, and marshes. Forages for small mammals within lightly grazed/ungrazed pastures and grasslands.	**Low.** The study area supports trees that may be suitable nesting habitat for this species. Additionally, fossorial mammals living on the study area may provide feeding opportunities for individuals passing through the area. The surrounding development likely limits the suitability of the study area as habitat for this species. This species has not been recorded within the Murrieta quadrangle on CNDDB in 20 years. The most recent occurrence of the species was recorded on CNDDB in 1999, approximately 2.75 miles to the northeast of the study area.
Polioptila californica californica	coastal California gnatcatcher	FT/SSC MSHCP Covered Species	Occurs in coastal sage scrub and very open chaparral.	**None.** The study area does not support suitable habitat for this species.

Appendix F (cont.)
Sensitive Animal Species Potential to Occur[1]

Species Name	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Vireo bellii pusillus	least Bell's vireo	FE/SE MSHCP Covered Species (a)	Inhabits riparian woodland and is most frequent in areas that combine an understory of dense, young willows or mule fat with a canopy of tall willows.	**Presumed Absent.** The study area supports suitable habitat within the southern willow scrub. This species was not observed during the focused surveys performed between April and August 2018, or during surveys performed in 2015.
Mammals				
Chaetodipus californicus femoralis	Dulzura pocket mouse	SSC	Primarily associated with mature chaparral. It has, however, been trapped in mule fat scrub and is known to occur in coastal sage scrub.	**None.** The study area does not support mature chaparral or coastal sage scrub. The mule fat scrub mapped on the study area is only 0.01 acre.
Chaetodipus fallax fallax	northwestern San Diego pocket mouse	SSC MSHCP Covered Species	Herbaceous openings within coastal sage scrub, chaparral, grasslands, and desert scrub. Often associated with sandy, rocky, or gravelly substrates.	**Low.** The study area supports non-native grassland habitat. Small mammal burrows were observed throughout the study area. This species was recorded on CNDDB in 1994 approximately 1.6 miles to the southeast of the study area.
Dipodomys merriami parvus	San Bernardino kangaroo rat	FE/SSC MSHCP Covered Species (c)	Generally associated with alluvial fan sage scrub, but also occurs in sage scrub, chaparral, and grassland in proximity to alluvial fan sage scrub habitats.	**None.** The study area and adjacent areas do not support alluvial fan sage scrub habitat.
Dipodomys stephensi	Stephens' kangaroo rat	FE/ST MSHCP Covered Species	Primarily occurs in sparsely vegetated areas within grassland habitats, but also found in open coastal scrub habitat. Feeds on filaree (*Erodium* sp.) and brome (*Bromus* sp.) seeds. Dig burrows in firm soil or use abandoned pocket gopher burrows.	**Low.** Although the study area is completely surrounded by existing development, the study area supports sparsely vegetated areas with filaree and brome species. Small mammal burrows were observed throughout the study area. This species was recorded on CNDDB in 1988 approximately 0.6 mile to the southeast of the study area.

Appendix F (cont.)
Sensitive Animal Species Potential to Occur[1]

Species Name	Common Name	Status[2]	Habitat, Ecology, and Life History	Potential to Occur[3]
Eumops perotis californicus	western mastiff bat	SSC	Roosts under exfoliating rock slabs on cliff faces and occasionally in large boulder crevices and building cracks. Forages in a variety of open areas, including washes, floodplains, chaparral, coastal sage scrub, woodlands, ponderosa pine forests, grassland, and agricultural areas.	**Low.** Although the study area does not support suitable roosting habitat, this species may use the study area for foraging. This species was only recorded once within the Murrieta quadrangle on CNDDB, which was in 1991 approximately 1.25 miles to the southwest of the study area.
Lepus californicus bennettii	San Diego black-tailed jackrabbit	SSC MSHCP Covered Species	Occurs primarily in open habitats including coastal sage scrub, chaparral, grasslands, croplands, and open, disturbed areas if there is at least some shrub cover present.	**Low**. The study area supports non-native grassland. However, there are no interspersed shrubs aside from riparian vegetation located at the edge of non-native grassland habitat. The study area is completely surrounded by existing development and does not connect to any larger open space areas. This species was recorded on CNDDB in 2007 approximately 1.8 miles to the northwest of the study area.

Appendix F (cont.)
Sensitive Animal Species Potential to Occur[1]

SENSITIVE ANIMAL SPECIES POTENTIAL TO OCCUR[1]				
Species Name	**Common Name**	**Status[2]**	**Habitat, Ecology, and Life History**	**Potential to Occur[3]**
Perognathus longimembris brevinasus	Los Angeles pocket mouse	SSC MSHCP Covered Species (c)	Sandy, gravelly, or stony soils within coastal scrub, alluvial sage scrub, and grassland habitats.	**Low.** Although the study area is completely surrounded by existing development, the study area supports non-native grassland habitat and sandy soil. Small mammal burrows were observed throughout the study area. This species was recorded on CNDDB in 1993 approximately 2.5 miles to the northeast of the study area.

Source: CDFW (2019), HELIX (2019)

[1] Sensitive species reported within the Murrieta quadrangle based on a database search conducted on CNDDB.

[2] Listing is as follows: F = Federal; S = State of California; E = Endangered; T = Threatened; CE = Candidate Endangered; CT = Candidate Threated; FP = Fully Protected; SSC = State Species of Special Concern. MSHCP Conditionally Covered Species (a) through (f): (a) surveys may be required for species as part of wetland mapping (MSHCP Section 6.1.2); (b) surveys may be required for species within Narrow Endemic Plant Species Survey Area (MSHCP Section 6.1.3); (c) surveys may be required for species within locations shown on survey maps (MSHCP Section 6.3.2); (d) surveys may be required for species within Criteria Area Species Survey Area (MSHCP Section 6.3.2); (e) covered species will be considered to be covered species adequately conserved when conservation requirements identified in species-specific conservation objectives have been met (MSHCP Table 9-3); and (f) covered species will be conserved covered species adequately conserved when a Memorandum of Understanding is executed with the Forest Service that addresses management for these species on Forest Service Land (MSHCP Table 9-3).

[3] Potential to Occur is assessed as follows. **None**: Species is so limited to a particular habitat that it cannot disperse across unsuitable habitat (*e.g.* aquatic organisms), and habitat suitable for its survival does not occur on the study area; **Not Expected**: Species moves freely and might disperse through or across the study area, but suitable habitat for residence or breeding does not occur on the study area (includes species recorded during surveys but only as transients); **Low**: Suitable habitat is present on the study area but of low quality and/or small extent. The species has not been recorded recently on or near the study area. Although the species was not observed during surveys for the current project, the species cannot be excluded with certainty; **Moderate**: Suitable habitat is present on the study area and the species was recorded recently near the study area; however, the habitat is of moderate quality and/or small extent. Although the species was not observed during surveys for the current project, the species cannot be excluded with certainty; **High**: Suitable habitat of sufficient extent for residence or breeding is present on the study area and the species has been recorded recently on or near the study area, but was not observed during surveys for the current project. However, focused/protocol surveys are not required or have not been completed; **Presumed Present**: The species was observed during biological surveys for the current project and is assumed to occupy the study area; **Presumed Absent**: Suitable habitat is present on the study area but focused/protocol surveys for the species were negative.

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Appendix G

2018 Burrowing Owl Focused Survey Report

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September 11, 2018 GFL-01

Richard Niec
Griffin Fine Living
24005 Ventura Boulevard
Calabasas, CA 91302

Subject: 2018 Burrowing Owl (*Athene cunicularia*) Survey Report for the Solana Senior Assisted Living Center Project

Dear Mr. Niec:

This letter report presents the results of the 2018 focused burrowing owl (*Athene cunicularia;* BUOW) survey conducted by HELIX Environmental Planning, Inc. (HELIX) for the Solana Senior Assisted Living Center Project (project) located in the City of Temecula, Riverside County (County), California. The survey was conducted in accordance with the County's Burrowing Owl Survey Instructions for the Western Riverside Multiple Species Habitat Conservation Plan (MSHCP; County of Riverside [County] 2006). This survey was conducted to meet applicable conditions under the MSHCP, which was approved in 2003 (Dudek and Associates [Dudek] 2003). The MSHCP is a comprehensive planning effort that includes Western Riverside County and multiple cities, including the City of Temecula (City). As part of the MSHCP implementation, enrolled jurisdictions are required to impose terms of the MSHCP, including appropriate surveys in accordance with Volume 1, Section 6. The proposed project is located within the survey area for BUOW; therefore, surveys are required if suitable habitat is present (County 2006). This letter report describes the methods used to perform the survey and the survey results.

STUDY AREALOCATION

The approximately 4.69-acre study area is located in the City of Temecula, Riverside County, California (Figure 1, *Regional Location*). The study area is located within the U.S. Geological Survey (USGS) 7.5-minute Murrieta quadrangle maps in Section 36 of Township 7 South, Range 3 West (Figure 2, *USGS Topography*). The study area is generally located east of Interstate 15 and southeast of State Route 79. Specifically, the study area is east of the intersection of Solana Way and Margarita Road. (Figure 3, *Aerial Vicinity*).

PROJECT DESCRIPTION

The proposed project is a senior assisted living center that would include a residential building to accommodate assisted living and memory support units. The development would also include associated facilities, such as an administration building, dining/activity buildings, a multi-purpose room, gardens, a courtyard, and parking spaces. Primary access to the development would be via Solana Way.

STUDY AREA DESCRIPTION

The study area comprises undeveloped land dominated by non-native grassland. The study area is mostly flat with a gradual slope in the northern portion of the study area. A drainage dominated by southern willow scrub flows from east to west through the center of the study area. Elevations on the study area range from approximately 1,075 feet above mean sea level (AMSL) near the southwestern study area boundary to 1,090 feet AMSL near the southeastern boundary. Existing residential development surrounds the majority of the study area, with some undeveloped land located to the east of the study area.

Vegetation Communities

A total of four vegetation communities and land uses were mapped on the study area, including mule fat scrub, sandbar willow scrub, southern willow scrub, and non-native grassland (Figure 4, *Suitable Burrow and Transect Locations*). A brief description of the vegetation community surveyed for BUOW and sign during the focused surveys is provided below. Representative photographs of the study area are shown on Attachment A, *Site Photographs*.

Non-native Grassland

Non-native grassland is a dense to sparse cover of annual grasses, often associated with numerous species of showy-flowered native annual forbs. Characteristic species include oats (*Avena* spp.), brome grasses (*Bromus* spp.), Italian ryegrass (*Festuca perennis*), and mustards (*Brassica* spp.). Most of the annual introduced species within the non-native grassland originate from the Mediterranean region, an area with a long history of agriculture and a climate similar to California.

Non-native grassland dominants the study area, occurring north and south of the drainage. The dominant species observed within this community was red brome (*Bromus madritensis* ssp. *rubens*). Other non-native grasses included Mediterranean grass (*Schismus barbatus*), ripgut grass (*Bromus diandrus*), soft brome (*Bromus hordeaceus*), slender oat (*Avena barbata*), and foxtail barley (*Hordeum murinum*).

METHODS

A Step I Habitat Assessment was conducted by HELIX Biologist and Regulatory Specialist Ezekiel Cooley and Step II Locating Burrows and Burrowing Owls were conducted by Mr. Cooley and HELIX Biologists Lauren Singleton and Amy Lee between April 19 and August 6, 2018, in accordance with the County's survey protocol (County 2006). The specific survey information is provided in Table 1, *Survey Information.* The habitat assessment, focused burrow, and BUOW surveys are described in detail below.

Table 1
SURVEY INFORMATION

Site Visit	Survey Date	Biologist	Start/Stop Time	Start/Stop Weather Conditions	Survey Results
1[1]	04/19/18	Ezekiel Cooley	0615-0745	48°F, wind 2-3 mph, 50% clouds 52°F, wind 1-2 mph, 40% clouds	Suitable habitat and burrows observed; no BUOW detected.
2	05/25/18	Amy Lee	0550-0700	55°F, wind 0-1 mph, 100% clouds 55°F, wind 0-1 mph, 97% clouds	No BUOW detected.
3	07/27/18	Lauren Singleton	0630-0700	69°F, wind 2-3 mph, 15% clouds 70°F, wind 1-2 mph, 15% clouds	No BUOW detected.
4	08/06/18	Lauren Singleton	0645-0730	70°F, wind 1-2 mph, 0% clouds 75°F, wind 0-1 mph, 0% clouds	No BUOW detected.

[1] This survey included the habitat assessment, focused burrow survey, and first focused BUOW survey.

Step I – Habitat Assessment

The study area is located within a MSHCP BUOW survey area; therefore, a Step I Habitat Assessment was conducted to determine whether the study area supports suitable BUOW habitat. The habitat assessment was conducted prior to commencement of the Step II surveys described below. The assessment was conducted on the study area and within an approximately 500-foot (150-meter) buffer zone around the periphery of the study area (survey area). The survey area was slowly walked and assessed for suitable BUOW habitat, including:

- disturbed low-growing vegetation within grassland and shrublands (less than 30 percent canopy cover);
- gently rolling or level terrain;
- areas with abundant small mammal burrows, especially California ground squirrel burrows (*Otospermophilus beecheyi*);
- fence posts, rocks, or other low perching locations; and
- man-made structures, such as earthen berms, debris piles, and cement culverts.

Inaccessible areas of the survey area were visually assessed using binoculars.

Step II – Locating Burrows and Burrowing Owls

Since suitable habitat was observed during the habitat assessment, Step II surveys were conducted within the survey area. Step II surveys, which consist of a focused burrow survey (Part A) and four focused BUOW surveys (Part B), were conducted to determine whether the survey area supports suitable burrows and/or BUOW. The focused burrow survey was conducted concurrently with the first BUOW survey.

All potential burrows were checked for signs of recent owl occupation. Signs of occupation include:

- pellets/casting (regurgitated fur, bones, and/or insect parts);
- white wash (excrement); and/or

- feathers.

Since suitable burrows were observed within the survey area, three additional BUOW surveys were conducted. The biologist walked transects spaced no greater than approximately 100 feet (30 meters) apart to allow for 100 percent visual coverage of all suitable habitat within the survey area. The biologist walked slowly and methodically, closely checking suitable habitat within the survey area for suitable burrows, BUOW diagnostic sign (e.g., molted feathers, pellets/castings, or whitewash at or near a burrow entrance), and individual BUOW. Inaccessible areas of the survey area were visually assessed using binoculars. All suitable burrows, burrow surrogates, BUOW sign, and/or BUOW observations were recorded using a handheld Global Positioning System unit (Figure 4).

RESULTS

Suitable BUOW habitat was observed within the survey area, which included non-native grassland (Attachment A). Suitable burrows that could potentially be used by BUOW were observed within the survey area. No BUOW or sign of BUOW occupation were observed during the four focused surveys. Therefore, BUOW does not currently occupy the study area. Observed burrow locations and transects walked are shown on Figure 4.

CONCLUSION

No BUOW were observed or detected within the survey area during the focused surveys. Burrows with the potential to support BUOW were noted within the survey area, but no sign of BUOW occupation was observed. A pre-construction survey is required 30 days prior to ground disturbance pursuant to the County's survey protocol (County 2006). If ground-disturbing activities are delayed more than 30 days after the pre-construction survey has been completed, the study area must be resurveyed.

If you have any questions regarding the information presented in this letter report, please contact us or Amir Morales at (949) 234-8770.

Sincerely,

Ezekiel Cooley
Biologist

Lauren Singleton
Biologist

Amy Lee
Biologist

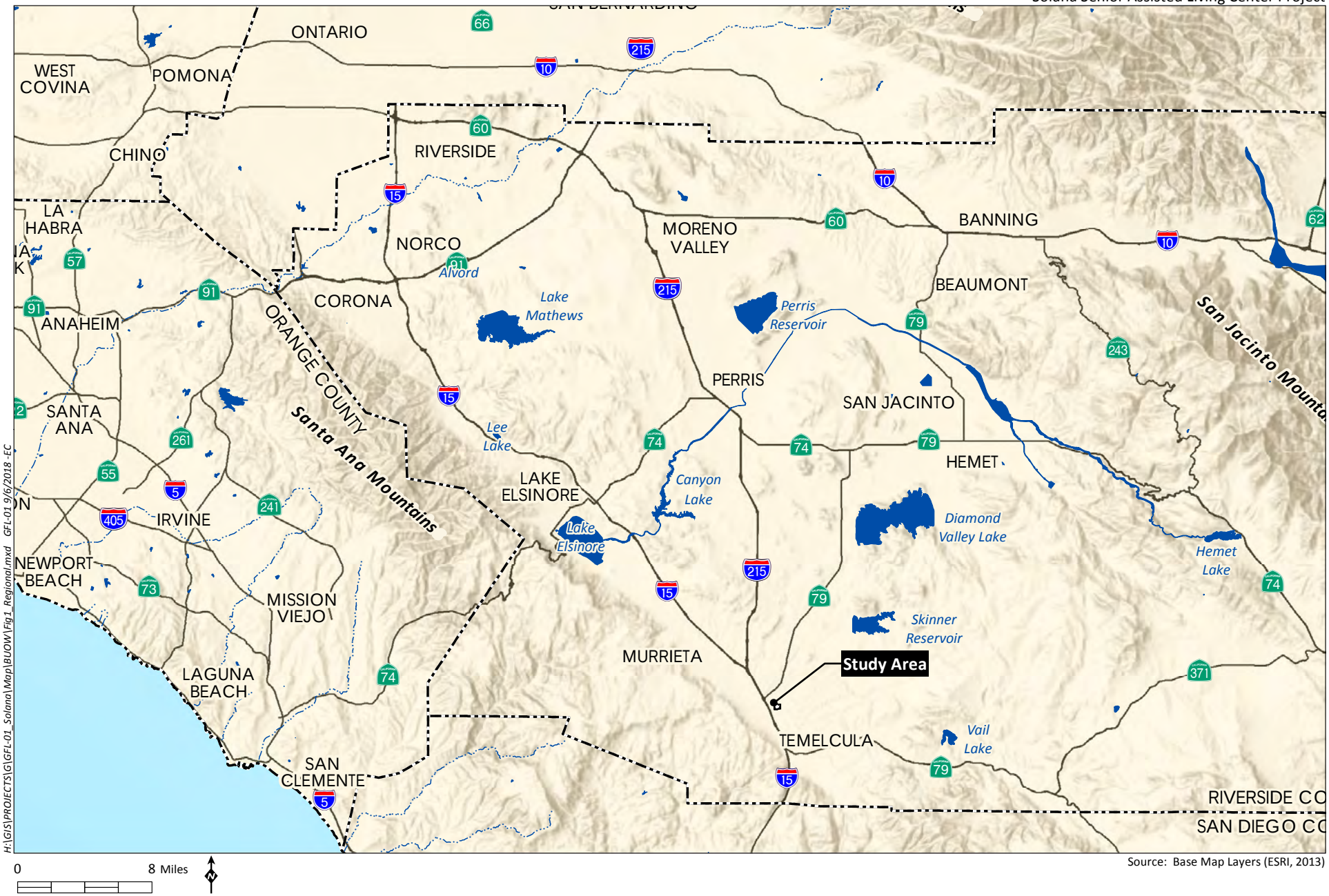
Enclosures:

Figure 1: Regional Location
Figure 2: USGS Topography
Figure 3: Aerial Vicinity
Figure 4: Suitable Burrow and Transect Locations
Attachment A: Site Photographs

REFERENCES

Dudek and Associates. 2003. Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) Final MSHCP Volume I. Prep. for County of Riverside, Transportation and Land Management Agency.

Riverside, County of. 2006. Environmental Programs Department. Burrowing Owl Survey Instructions for the Western Riverside Multiple Species Habitat Conservation Plan Area. Retrieved from: http://www.tlma.co.riverside.ca.us/epd/documents/Burrowing_Owl _Survey_Instructions.pdf. March 29. Accessed August 3, 2017.



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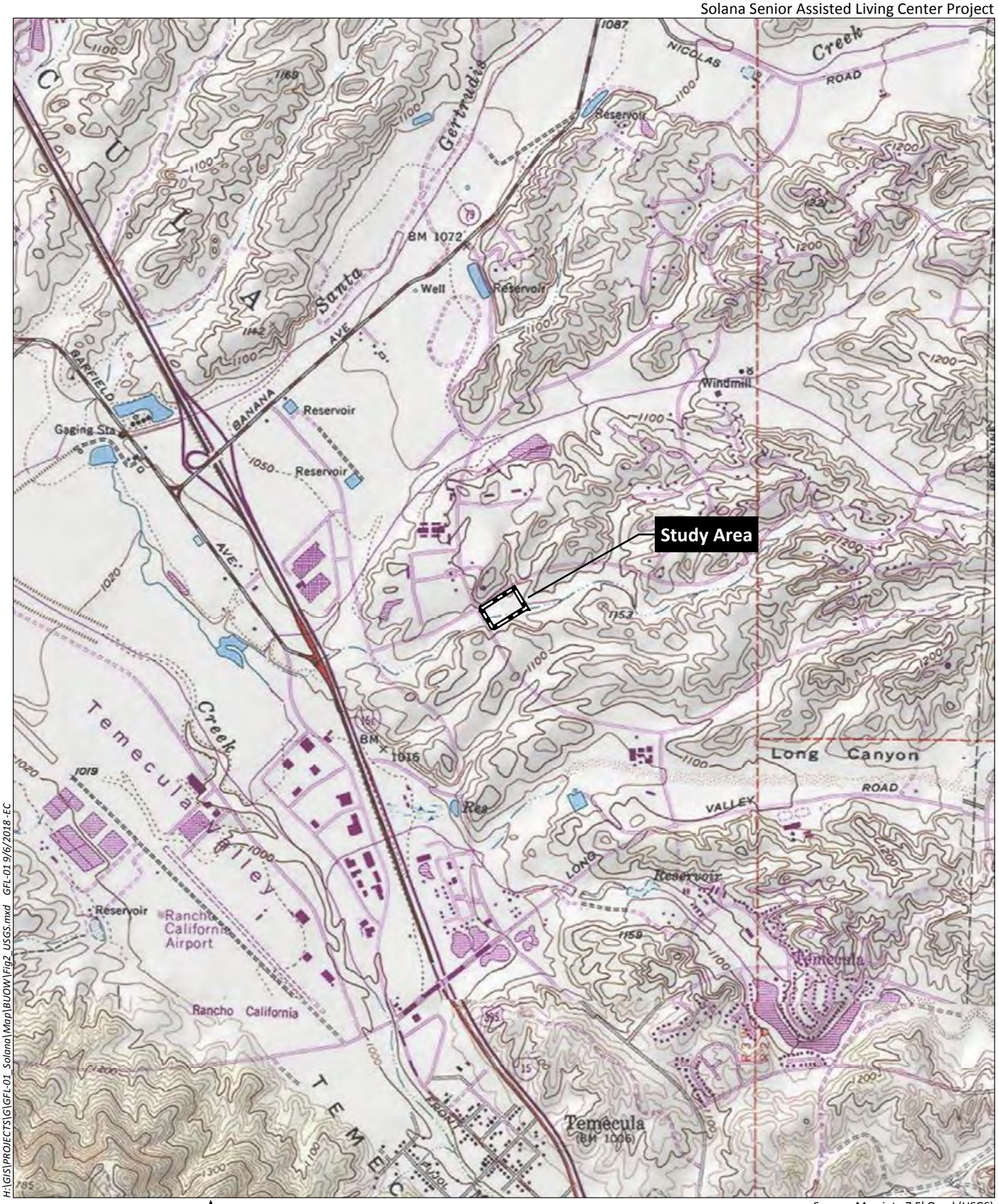
Source: Base Map Layers (ESRI, 2013)

HELIX Environmental Planning

Regional Location

Figure 1



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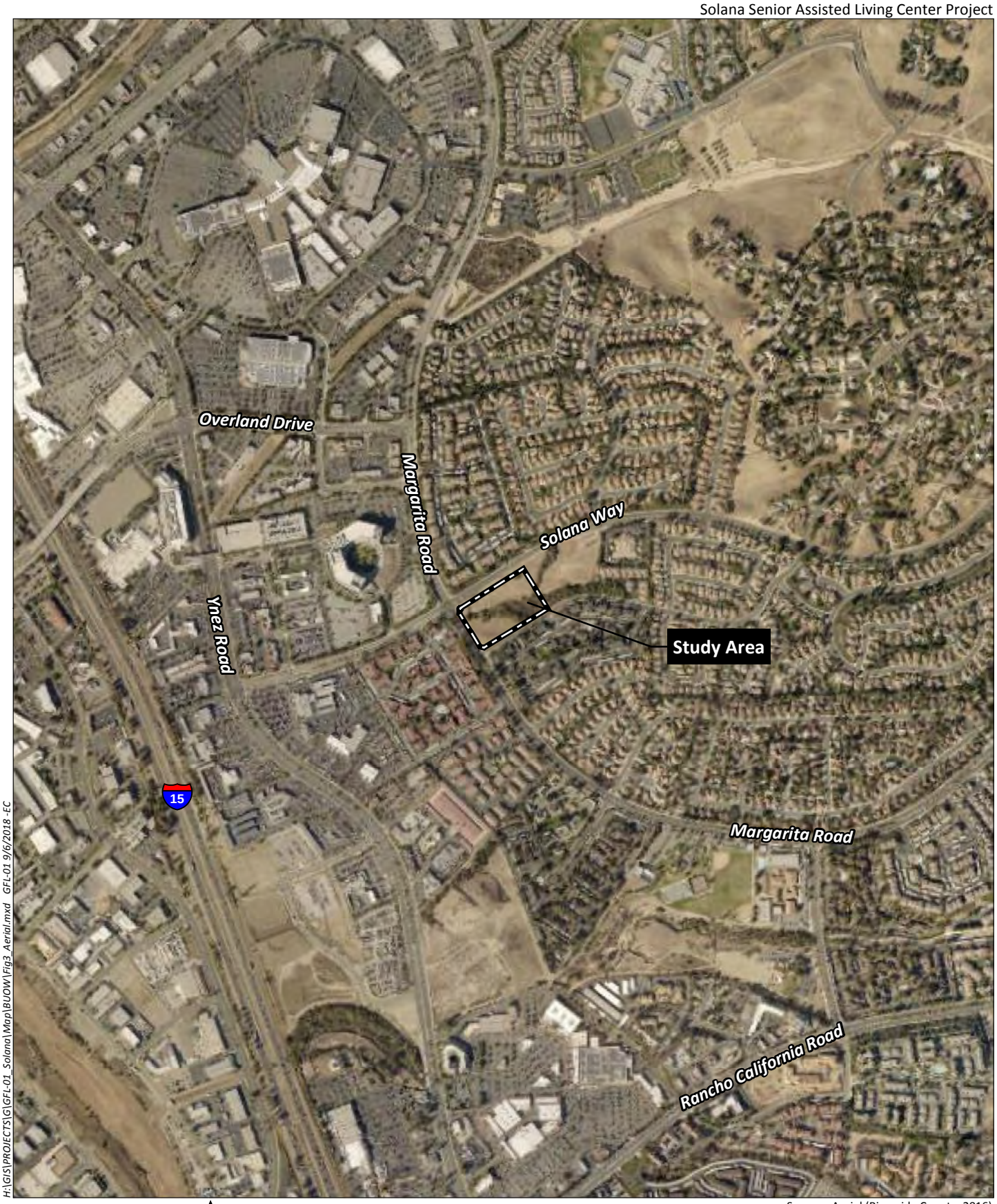
0 2,000 Feet

Source: Murrieta 7.5' Quad (USGS)

HELIX Environmental Planning

USGS Topography

Figure 2



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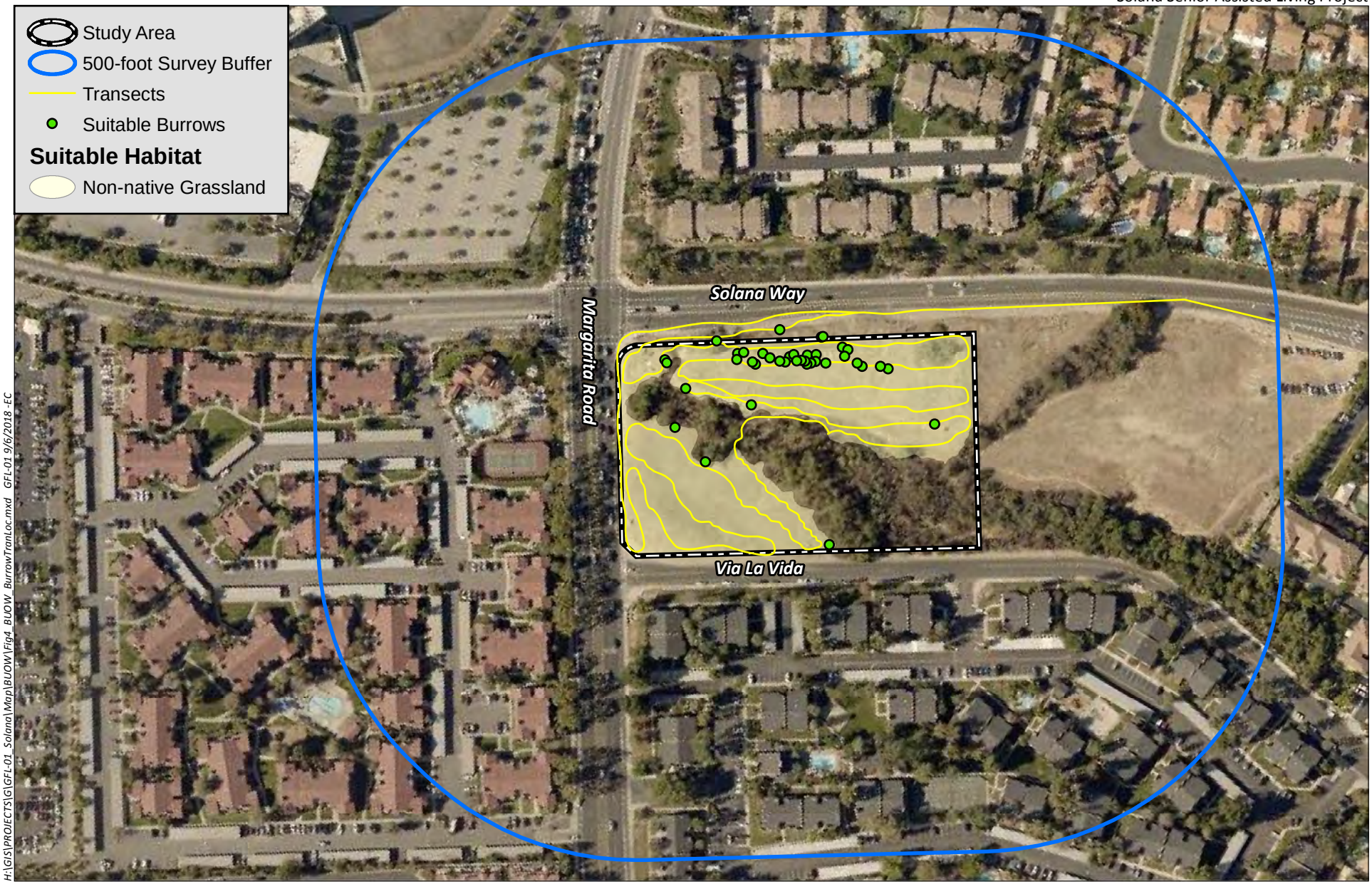
0 1,000 Feet

Source: Aerial (Riverside County, 2016)

HELIX Environmental Planning

Aerial Vicinity

Figure 3



Source: Aerial (Riverside County, 2016)

HELIX Environmental Planning

Suitable Burrow and Transect Locations

Figure 4

Photograph 1: View of the non-native grassland community in the northern portion of the study area, facing southwest. Solana Way is shown to the right.

Photograph 2: View of the non-native grassland community in the western portion of the study area, facing southwest. Solana Way is shown to the right.

Photograph 3: View of the non-native grassland community in the southern portion of the study area, facing southeast towards Via La Vida.

Photograph 4: View of the non-native grassland community in the southern portion of the study area, facing southwest towards Margarita Road.

Source: HELIX 2018

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Appendix H

2015 Burrowing Owl Focused Survey Report

August 6, 2015

Mr. Ali Pourdastan
c/o Taqi Chaudhry
48 Via Alcamo
San Clemente, CA 92673

Re: RESULTS OF FOCUSED BURROWING OWL SURVEYS FOR APN'S 921-330-025, -026, -052 & -053, CITY OF TEMECULA, RIVERSIDE COUNTY, CALIFORNIA

Dear Mr. Pourdastan:

This report summarizes the methodology and findings of focused burrowing owl (*Athene cunicularia*) (BUOW) surveys conducted by **PCR Services Corporation (PCR)** for the approximately 4.0-acre property located east of the intersection of Solano Way and Margarita Road in the City of Temecula (APNs 921-330-025, -026, -052 & -053) ("project site") located within the City of Temecula, Riverside County, California. The surveys encompassed the project site and a 500-foot survey buffer surrounding the perimeter of the project site where suitable habitat is present. The surveys were conducted in accordance with the County of Riverside's 2006 *Burrowing Owl Survey Instructions for the Western Riverside Multiple Species Habitat Conservation Plan Area*.[1]

PROJECT SITE DESCRIPTION

The approximately 4.0-acre project site is generally situated east of Interstate 215 (I-215) and north of state route 79, as shown in **Figure 1**, *Regional Map*. Specifically, the project site is located east of the intersection of Margarita Road and Solana Way. The project site is depicted on the U.S. Geological Survey (USGS) 7.5' Murrieta topographic quadrangle map, Section 1, T. 8 S., R. 3 W., as shown in **Figure 2**, *Vicinity Map*. The topography of the project site is generally flat. Elevations on the project site range from approximately 1,075 feet above mean sea level (MSL) along the western boundary of the project site, to approximately 1,090 feet above MSL along the northern boundary of the project site. Surrounding land uses include residential development to the north, south, east, and west.

[1] *County of Riverside. 2006. Burrowing Owl Survey Instructions for the Western Riverside Multiple Species Habitat Conservation Plan Area.*

PLANT COMMUNITIES

The project site consists primarily of large ruderal areas. A brief summary of the ruderal vegetation community within the project site where the surveys were conducted is discussed below.

Ruderal

Ruderal vegetation is found in areas heavily disturbed by human activities, such as roadsides, graded fields, and manufactured slopes. Within the project site, non-native species observed within this community include shortpod mustard (*Hirschfeldia incana*), foxtail chess (*Bromus madritensis*), red-stemmed filaree (*Erodium cicutarium*), tamarisk (*Tamarix ramosissima*), and native species such as common fiddleneck (*Amsinckia intermedia*) and cudweed aster (*Corethrogyne filaginifolia*). Ruderal areas occupy 2.73 acres throughout the project site.

METHODOLOGY

Step I - Habitat Assessment

The surveys were conducted in accordance with the County of Riverside's 2006 *Burrowing Owl Survey Instructions for the Western Riverside Multiple Species Habitat Conservation Plan Area*.[2] During the Step I Habitat Assessment, suitable habitat was identified on-site during the field survey, including disturbed, low-growing vegetation; bare ground; and small fossorial mammal burrows.

Step II – Locating Burrows and Burrowing Owls

Step II surveys were conducted within the project site plus an approximately 500-foot survey buffer around the project site perimeter. Surveys focused on the detection of small fossorial mammal burrows potentially suitable for BUOW, BUOW burrows, individual BUOW, and any diagnostic sign of their occurrence (e.g., molted feathers, cast pellets, prey remains, eggshell fragments, or excrement at or near a burrow entrance). Off-site areas within the 500-foot survey buffer were surveyed by foot where accessible, or with the use of binoculars in areas which were inaccessible.

Surveys were conducted on March 27, April 17, May 12, and June 2, 2015 by PCR biologist Amy Lee. Surveys consisted of four site visits, on four separate days, and were conducted between one hour prior to and two hours after sunrise during suitable weather conditions. Transects were

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[2] *County of Riverside. 2006. Burrowing Owl Survey Instructions for the Western Riverside Multiple Species Habitat Conservation Plan Area.*

utilized in all accessible areas, spaced no more than 100 feet apart, to allow for 100 percent visibility (**Figure 3**, *Transect Map*, attached). In addition, observations were made with the use of binoculars. Weather conditions consisted of clear to cloudy skies with winds between 0 and 2 miles per house (mph) and air temperatures ranging from 50° to 75° Fahrenheit. Survey data is presented in **Table 1**, *Survey Data*, below.

Table 1

Survey Data

Date	Time	Wind (mph) (start/end)	Temperature (F) (start-end)	Weather (start-end)	Results	Surveyor
03/27/15	0645 – 0840	0-1/0-1	54° – 64°	0% Cloud Cover – 0% Cloud Cover	No BUOW or BUOW sign	Lee
04/17/15	0645 – 0830	0-1/0-1	50° – 55°	0% Cloud Cover – 0% Cloud Cover	No BUOW or BUOW sign	Lee
05/12/15	0630 – 0800	0-1/1-3	52° – 55°	100% Cloud Cover – 100% Cloud Cover	No BUOW or BUOW sign	Lee
06/02/15	0605 – 0745	0-1/0-1	52°– 56°	0% Cloud Cover – 0% Cloud Cover	No BUOW or BUOW sign	Lee

Source: PCR Services Corporation, 2015.

RESULTS

The project site is within the Burrowing Owl Survey Area for the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP). The following results present the findings of the Step I Habitat Assessment and Step II Locating Burrows and Burrowing Owls.

Step I - Habitat Assessment

Results of the Step I, Habitat Assessment concluded that the project site and 500-foot survey buffer exhibited suitable BUOW habitat consisting of disturbed, low-growing vegetation; bare ground; and fossorial mammal burrows.

Step II – Locating Burrows and Burrowing Owls

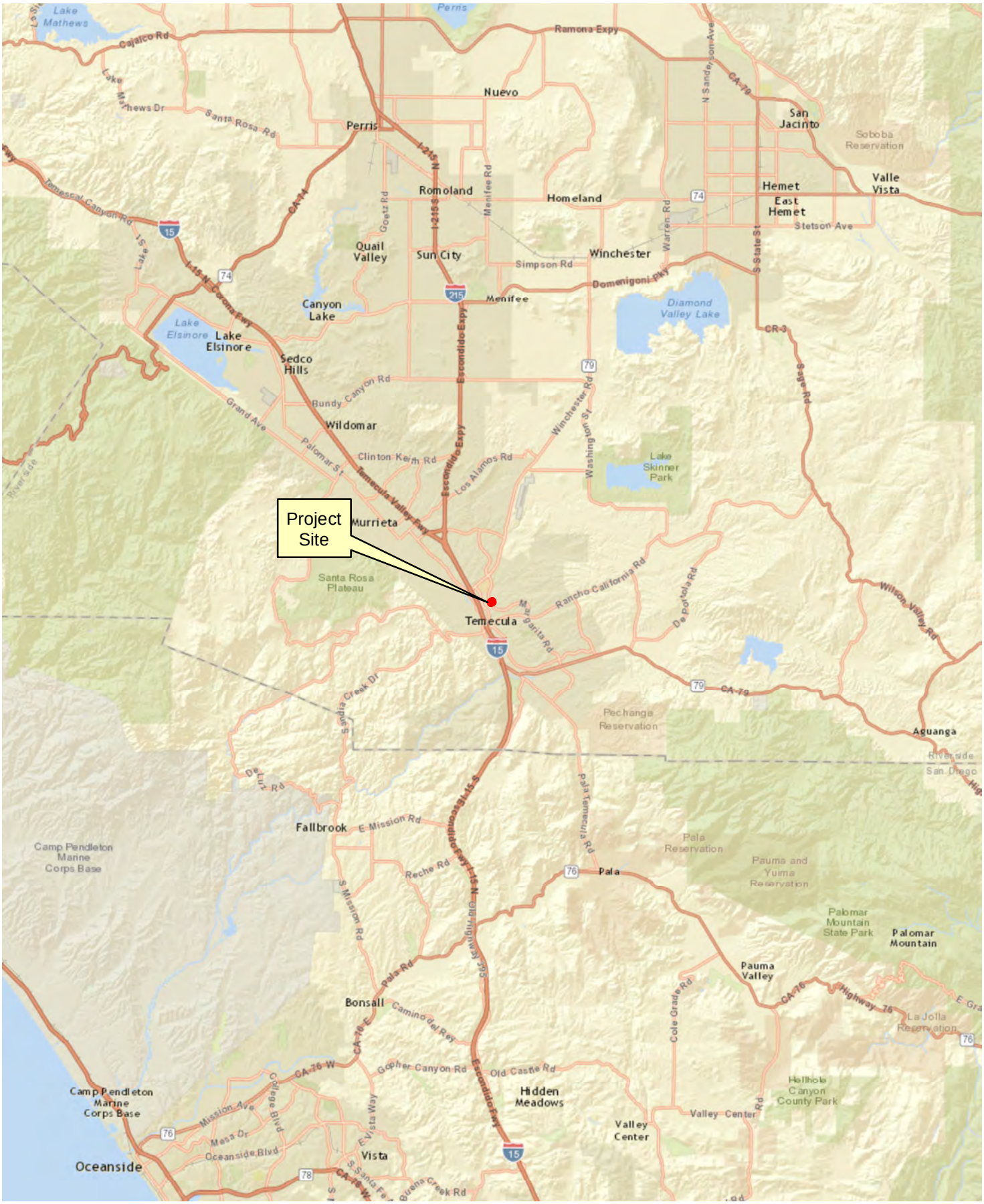
The Step II surveys did not identify BUOW burrows, BUOW sign or BUOW within the project site or within the 500-foot survey buffer. A complete list of all avian species observed within the project site is included in **Appendix A**, *Avian Compendium*, attached.

Should you have any questions concerning the methodology or findings in this report, please contact Amy Lee (a.lee@pcrnet.com) at (949) 753-7001.

Sincerely,
PCR SERVICES CORPORATION

Amy Lee
Biologist

Attachments:
Figure 1: Regional Map
Figure 2: Vicinity Map
Figure 3: Transect Map
Appendix A: Avian Compendium



PCR

0 5 10 Miles

Regional Map

APNs_921-330-025, -026, -052, -053

Source: ESRI Street Map, 2009; PCR Services Corporation, 2015.

FIGURE

1

PCR

N

0 2,000 4,000 Feet

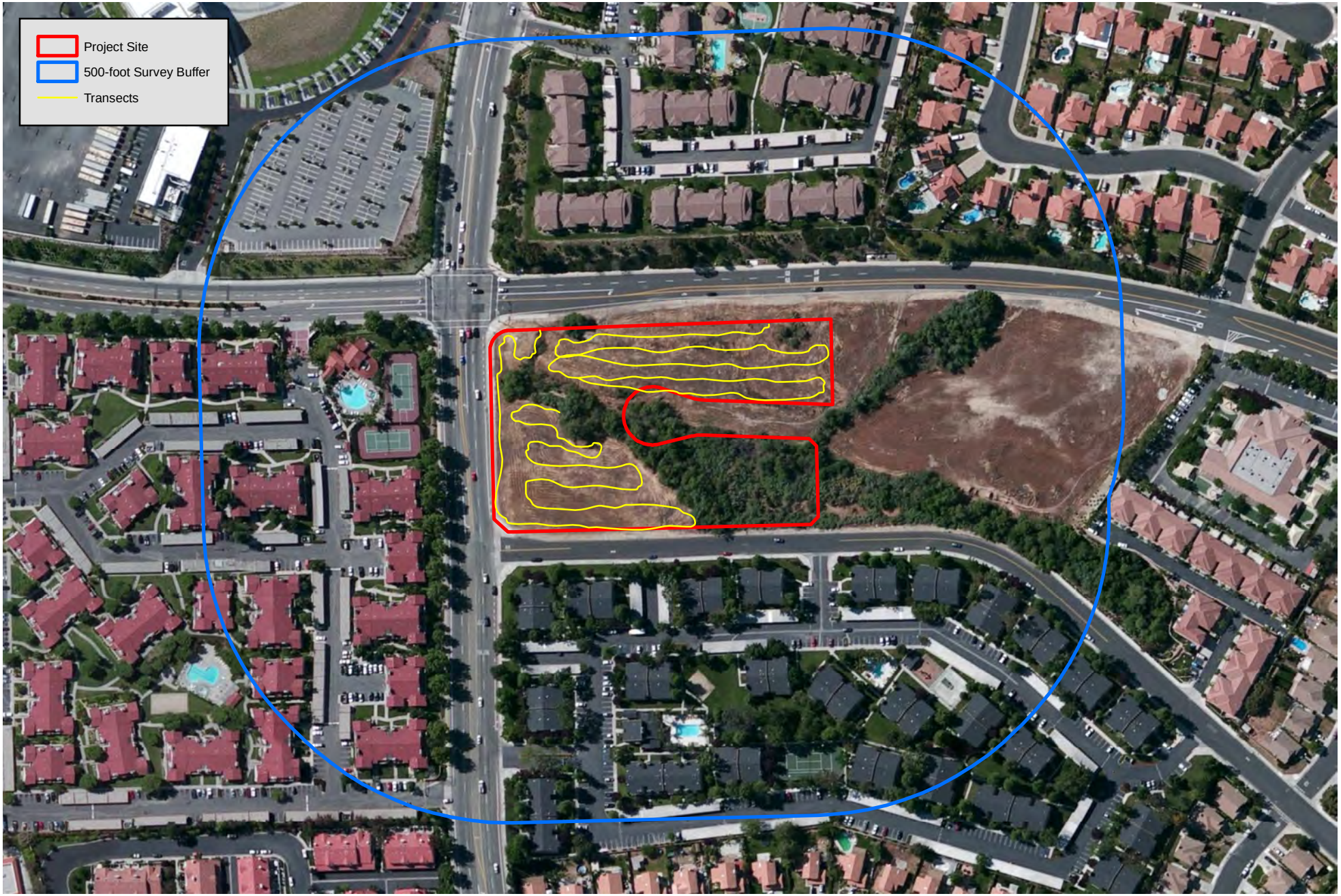
Vicinity Map

APNs_921-330-025, -026, -052, -053

Source: USGS Topographic Series (Murrieta, Temecula, CA); PCR Services Corporation, 2015.

FIGURE

2



PCR

0 225 450 Feet

Transect Map

APNs_921-330-025, -026, -052, -053

Source: Microsoft 2010 (Aerial); PCR Services Corporation, 2015.

FIGURE

3

Appendix A: Avian Compendium

BIRDS

SCIENTIFIC NAME	COMMON NAME
Anatidae	**Waterfowl**
Anas platyrhynchos	mallard
Accipitridae	**Hawks**
Accipiter cooperii	Cooper's hawk
Buteo lineatus	red-shouldered hawk
Charadriidae	**Plovers**
Charadrius vociferus	killdeer
Columbidae	**Pigeons and Doves**
Zenaida macroura	mourning dove
Trochilidae	**Hummingbirds**
Calypte anna	Anna’s hummingbird
Selasphorus sasin	Allen’s hummingbird
Picadae	**Woodpeckers**
Colaptes auratus	northern flicker
Picoides nuttallii	Nuttall’s woodpecker
Tyrannidae	**Tyrant Flycatchers**
Sayornis nigricans	black phoebe
Sayornis saya	Say’s phoebe
Tyrannus vociferans	Cassin’s kingbird
Corvidae	**Jays and Crows**
Aphelocoma californica	western scrub-jay
Corvus brachyrhynchos	American crow
Aegithalidae	**Bushtits**
Psaltriparus minimus	bushtit
Troglodytidae	**Wrens**
Troglodytes aedon	house wren
Thryomanes bewickii	Bewick's wren
Regulidae	**Kinglets**
Regulus calendula	ruby-crowned kinglet
Turdidae	**Thrushes**
Sialia mexicana	western bluebird
Mimidae	**Thrashers**
Mimus polyglottos	northern mockingbird
Parulidae	**Wood Warblers**
Mniotilta varia	black-and-whie warbler

* = Non-native Species

BIRDS

SCIENTIFIC NAME	COMMON NAME
Oreothlypis celata	orange-crowned warbler
Setophaga coronata	yellow-rumped warbler
Emberizidae	**Emberizids**
Melospiza melodia	song sparrow
Pipilo crissalis	California towhee
Pipilo maculatus	spotted towhee
Zonotrchia leucophrys	white-crowned sparrow
Icteridae	**Blackbirds**
Icterus cucullatus	hooded oriole
* *Molothrus ater*	brown-headed cowbird
Fringillidae	**Finches**
Carpodacus mexicanus	house finch
Spinus psaltria	lesser goldfinch

* = Non-native Species

Appendix I

2018 Least Bell's Vireo Focused Survey Report

HELIX Environmental Planning, Inc.
16485 Laguna Canyon Road
Suite 150
Irvine, CA 92618
949.234.8792 **tel.**
619.462.0552 **fax**
www.**helixepi**.com

August 30, 2018 GFL-01

Ms. Stacey Love
U.S. Fish and Wildlife Service
2177 Salk Ave., Suite 250
Carlsbad, CA 92008

Subject: 2018 Least Bell's Vireo (*Vireo bellii pusillus*) Survey Report for the Solana Senior Assisted Living Center Project

Dear Ms. Love:

This letter presents the results of a U.S. Fish and Wildlife Service (USFWS) protocol presence/absence survey for the least Bell's vireo (*Vireo bellii pusillus*; LBVI) conducted by HELIX Environmental Planning, Inc. (HELIX) for the Solana Senior Assisted Living Center Project (project). This letter describes the survey methods and results, and is submitted to the USFWS in accordance with protocol survey guidelines.

PROJECT LOCATION

The approximately 4.69-acre study area is located in the City of Temecula, Riverside County, California (Figure 1, *Regional Location*). The study area is located within the U.S. Geological Survey (USGS) 7.5-minute Murrieta quadrangle maps in Section 36 of Township 7 South, Range 3 West (Figure 2, *USGS Topography*). The study area is generally located east of Interstate 15 and southeast of State Route 79. Specifically, the study area is east of the intersection of Solana Way and Margarita Road. (Figure 3, *Aerial Vicinity*).

METHODS

The survey consisted of eight site visits conducted by qualified HELIX biologists Ezekiel Cooley, Amy Lee, and Lauren Singleton between April 11 and July 27, 2018 (Table 1, *Survey Information*) in accordance with the current USFWS survey protocol (2001). The surveys were conducted by walking along the edges of, as well as within, potential LBVI habitat in the survey area while listening for LBVI and viewing birds with the aid of binoculars. The survey route was arranged to help ensure complete survey coverage of habitat with potential for occupancy by LBVI. The survey area included approximately 1.71 acres of suitable LBVI habitat on the study area, which consisted of mule fat scrub, sandbar willow scrub, and southern willow scrub. Table 1 details the survey dates, times, and conditions.

Table 1
SURVEY INFORMATION

Site Visit	Survey Date	Biologist	Time Start-End	Approx. Acres Surveyed/Acres per Hour	Start/Stop Weather Conditions	Survey Result	
						Least Bell's Vireo (LBVI)	Brown-Headed Cowbird[1]
1	04/11/18	Ezekiel Cooley	0830-1000	1.71 ac/ 1.14 ac per hr	60°F, wind 0-1 mph, 25% clouds 68°F, wind 0-1 mph, 0% clouds	No LBVI detected.	0
2	04/24/18	Ezekiel Cooley	0830-1020	1.71 ac/ 0.93 ac per hr	58°F, wind 0-1 mph, 40% clouds 70°F, wind 0-1 mph, 50% clouds	No LBVI detected.	0
3	05/04/18	Ezekiel Cooley	0930-1100	1.71 ac/ 1.14 ac per hr	70°F, wind 0-1 mph, 5% clouds 83°F, wind 0-1 mph, 10% clouds	No LBVI detected.	0
4	05/25/18	Amy Lee	0700-0830	1.71 ac/ 1.14 ac per hr	55°F, wind 0-1 mph, 97% clouds 60°F, wind 0-1 mph, 65% clouds	No LBVI detected.	0
5	06/06/18	Lauren Singleton	0900-1030	1.71 ac/ 1.14 ac per hr	63°F, wind 2-3 mph, 95% clouds 68°F, wind 0-1 mph, 0% clouds	No LBVI detected.	0
6	06/18/18	Lauren Singleton	0645-0815	1.71 ac/ 1.14 ac per hr	57°F, wind 1-2 mph, 100% clouds 60°F, wind 1-2 mph, 100% clouds	No LBVI detected.	0
7	07/13/18[2]	Lauren Singleton	0700-0830	1.71 ac/ 1.14 ac per hr	68°F, wind 0-1 mph, 20% clouds 74°F, wind 1-2 mph, 20% clouds	No LBVI detected.	0
8	07/27/18[2]	Lauren Singleton	0700-0750	1.71 ac/ 2.05 ac per hr	70°F, wind 1-2 mph, 15% clouds 71°F, wind 1-2 mph, 15% clouds	No LBVI detected.	0

[1] Number of brown-headed cowbird (*Molothrus ater*) detected during survey.
[2] The vegetation in the upstream portion of the drainage to the east of the study area (off-site) burned in a fire on 07/8/18. As a result, most of the adjacent suitable habitat was no longer present during Surveys 7 and 8.

SURVEY RESULTS

No adult or juvenile LBVI were observed or detected during the 2018 survey effort (Figure 4, *2018 Least Bell's Vireo Survey Results*). Brown-headed cowbird (*Molothrus ater*), which is a nest parasite of the LBVI, was not detected during the surveys.

CERTIFICATION

We certify that the information in this survey report and attached exhibits fully and accurately represent our work. Please contact us or Amir Morales at (949) 234-8792 should you have any questions.

Sincerely,

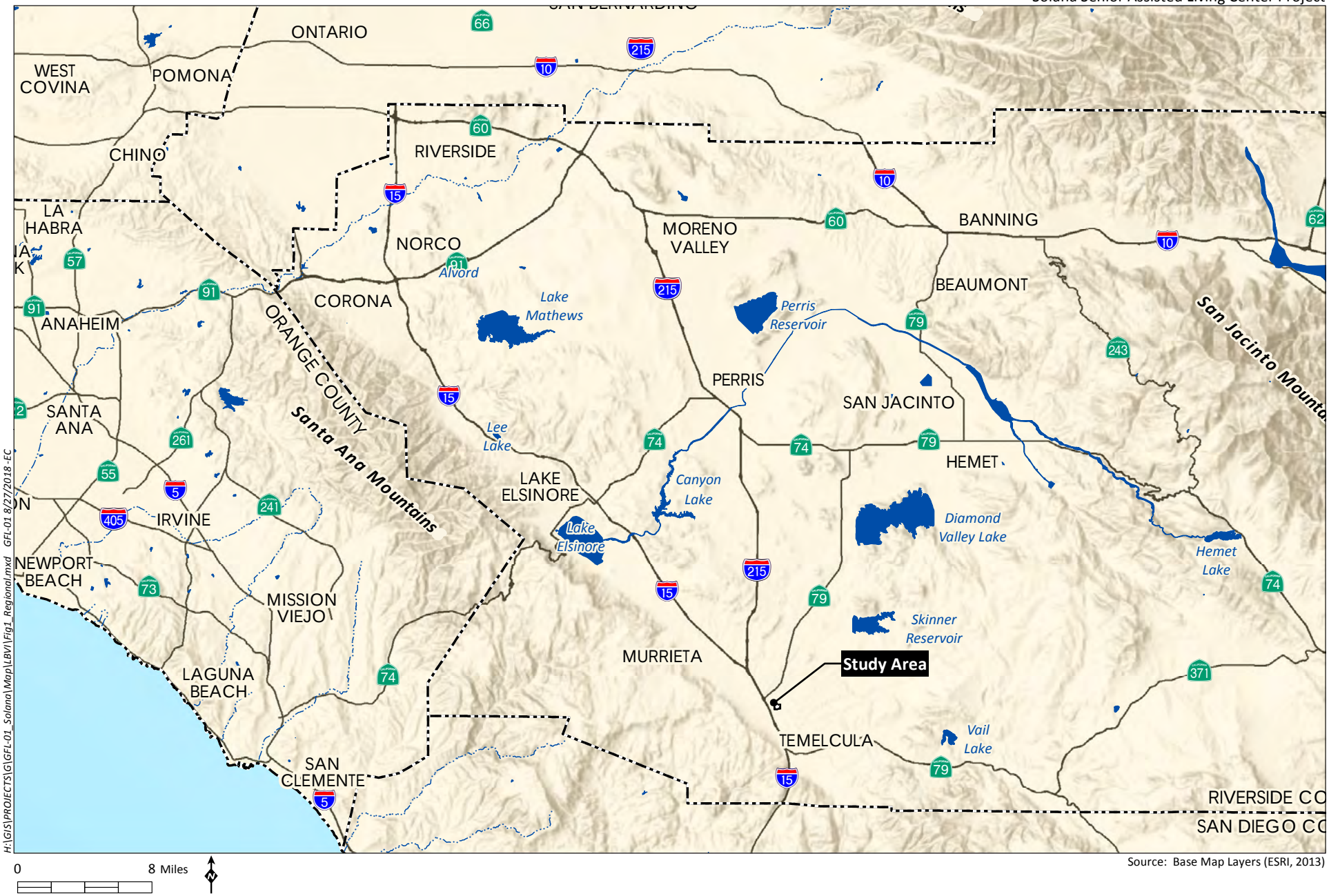
Ezekiel Cooley	Amy Lee	Lauren Singleton
Biologist	Biologist	Biologist

Attachments:

Figure 1: Regional Location
Figure 2: USGS Topography
Figure 3: Aerial Vicinity
Figure 4: 2018 Least Bell's Vireo Survey Results

REFERENCES

U.S. Fish and Wildlife Service (USFWS). 2001. Least Bell's Vireo Survey Guidelines. January 19.



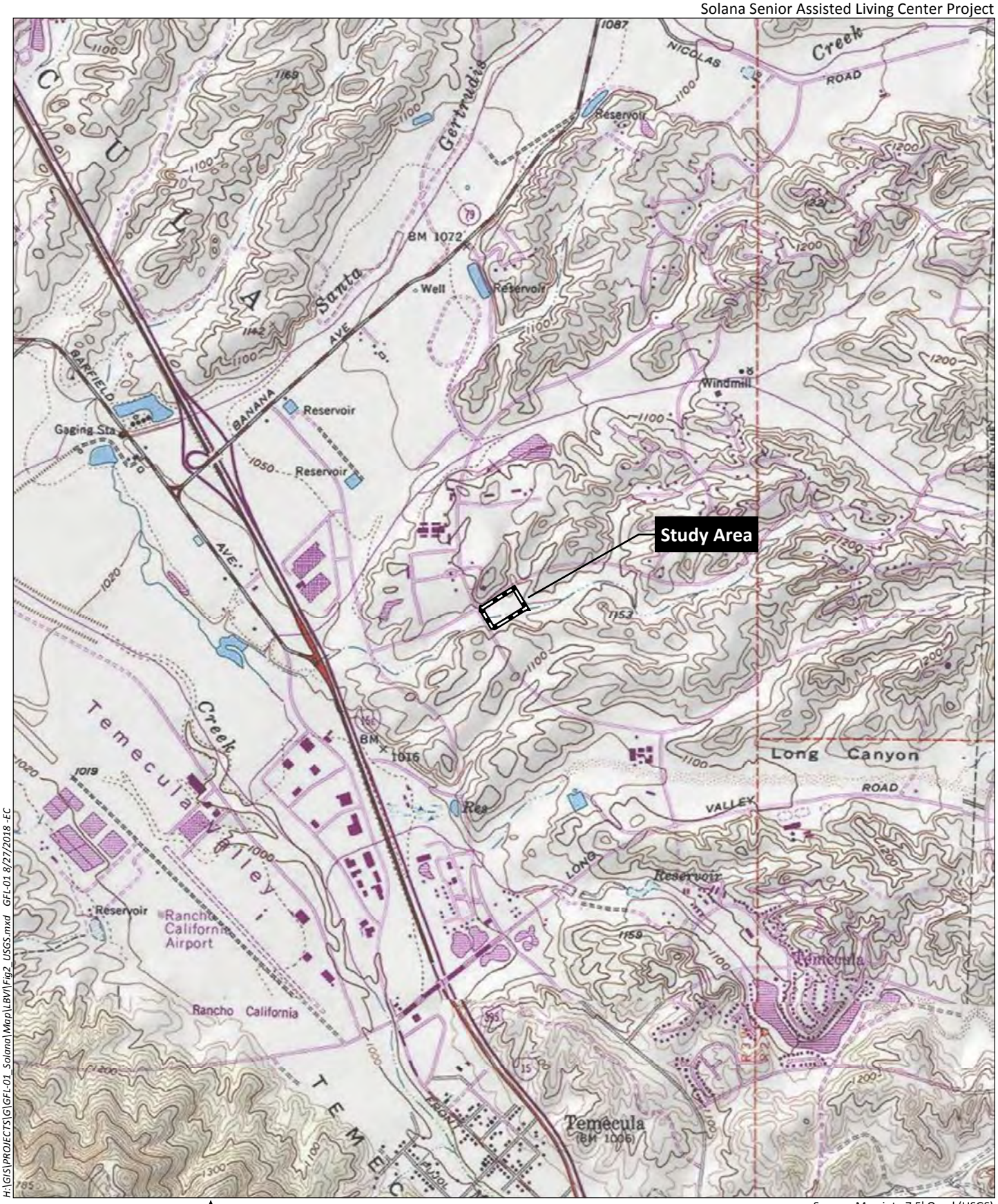
H:\GIS\PROJECTS\G\GFL-01_Solana\Map\LBV\Fig1_Regional.mxd GFL-01 8/27/2018 -EC

Source: Base Map Layers (ESRI, 2013)

HELIX Environmental Planning

Regional Location

Figure 1



H:\GIS\PROJECTS\G\GFL-01_Solana\Map\LBV\Fig2_USGS.mxd GFL-01 8/27/2018 -EC

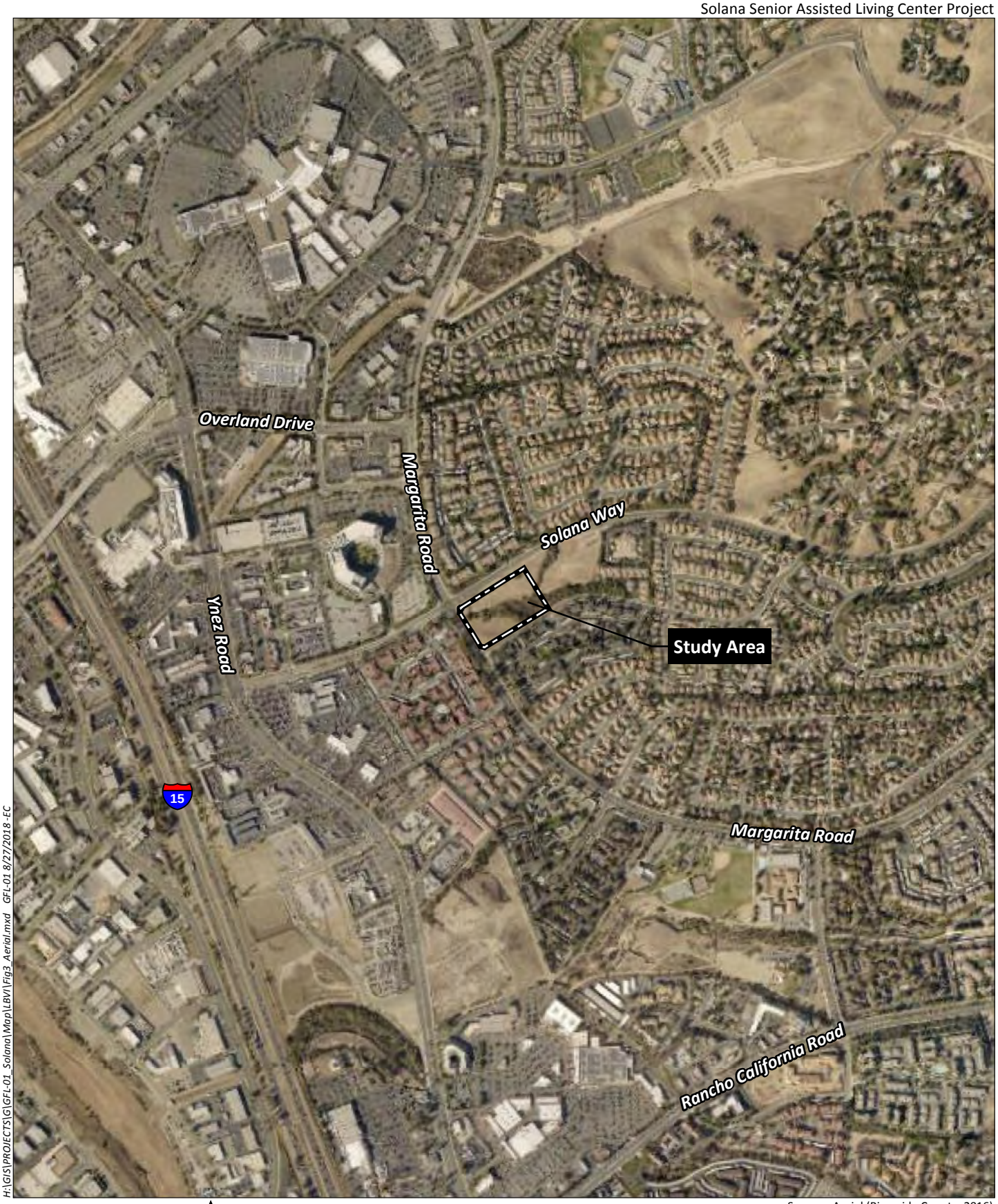
0 2,000 Feet

Source: Murrieta 7.5' Quad (USGS)

HELIX Environmental Planning

USGS Topography

Figure 2



H:\GIS\PROJECTS\G\GFL-01_Solana\Map\LBV\Fig3_Aerial.mxd GFL-01 8/27/2018 - EC

0 1,000 Feet

Source: Aerial (Riverside County, 2016)

HELIX Environmental Planning

Aerial Vicinity

Figure 3

Source: Aerial (Riverside County, 2016)

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HELIX Environmental Planning

2018 Least Bell's Vireo Survey Results

Figure 4

Appendix J

2015 Least Bell's Vireo Focused Survey Report

August 6, 2015

Ms. Stacey Love
U.S. FISH AND WILDLIFE SERVICE
2177 Salk Avenue, Suite 250
Carlsbad, California 92008

Re: RESULTS OF FOCUSED LEAST BELL'S VIREO SURVEYS FOR APN'S 921-330-025, -026, -052 & -053, CITY OF TEMECULA, RIVERSIDE COUNTY,CALIFORNIA

Dear Ms. Love:

This report summarizes the methodology and findings of focused least Bell's vireo (*Vireo bellii pusillus*) (LBV) surveys conducted by **PCR Services Corporation (PCR)** for the approximately 4.0-acre acre property located east of the intersection of Solano Way and Margarita Road in the City of Temecula (APNs 921-330-025, -026, -052 & -053) ("project site") located within the City of Temecula, Riverside County, California. The surveys were conducted by PCR biologists Ezekiel Cooley and Amy Lee within approximately 1.30-acre of potentially suitable southern willow scrub, sandbar willow scrub, and mule fat scrub (the "survey area") to determine the presence and location or absence of LBV within the project site.

PROJECT SITE DESCRIPTION

The approximately 4.0-acre project site is generally situated east of Interstate 215 (I-215) and north of state route 79, as shown in **Figure 1**, *Regional Map*. Specifically, the project site is located east of the intersection of Margarita Road and Solana Way. The project site is depicted on the U.S. Geological Survey (USGS) 7.5' Murrieta topographic quadrangle map, Section 1, T. 8 S., R. 3 W., as shown in **Figure 2**, *Vicinity Map*. The topography of the project site is generally flat. Elevations on the project site range from approximately 1,075 feet above mean sea level (MSL) along the western boundary of the project site, to approximately 1,090 feet above MSL along the northern boundary of the project site. Surrounding land uses include residential development to the north, south, east, and west.

PLANT COMMUNITIES

The project site is dominated by ruderal vegetation with a drainage surrounded by riparian habitat running through the middle of the project site. The discussion of plant community names and hierarchical structure follows the California Department of Fish and Wildlife's List of California Terrestrial Natural Communities Recognized by the Natural Diversity Database[1] and vegetation

[1] *State of California. Department of Fish and Wildlife. Wildlife & Habitat Data Analysis Branch. California Natural Diversity Database. October 13, 2000. List of Terrestrial Natural Communities Recognized by the California Natural Diversity Database. 65pp.*

community descriptions are based on Holland.[2] Plant communities found within the project site include southern willow scrub, sandbar willow scrub, mule fat scrub, and ruderal. **Figure 3**, *Riparian Communities Surveyed*, attached, depicts the location of all potentially suitable southern willow scrub, sandbar willow scrub, and mule fat scrub communities surveyed within the project site. A description of potentially suitable habitat within these riparian communities surveyed is presented below.

Southern Willow Scrub

Southern willow scrub is a dense, broadleaf riparian thicket dominated by several willow species, with scattered emergent Fremont cottonwood (*Populous fremontii*) and California sycamore (*Platanus racemosa*). Native species observed within this community on the project site include arroyo willow (*Salix lasiolepis*), black willow (*Salix gooddingii*), red willow (*Salix laevigata*), mule fat (*Baccharis salicifolia*), coyote bush (*Baccharis pilularis*), western ragweed (*Ambrosia psilostachya*), Fremont's cottonwood (*Populous fremontii*), and horseweed (*Erigeron canadensis*). Non-native species observed include tamarisk (*Tamarix ramosissima*) and curly dock (*Rumex crispus*). Southern willow scrub occupies approximately 1.19 acres within the project site.

Sandbar Willow Scrub

Sandbar willow scrub is dominated by sandbar willow (*Salix exigua*). Other native species found in this community include mule fat, California buckwheat (*Eriogonum fasciculatum*), horseweed, California poppy (*Eschscholzia californica*), and coast live oak (*Quercus agrifolia*). Non-native species observed in this community also include prickly lettuce (*Lactuca serriola*), tamarisk and Italian thistle (*Carduus pycnocephalus*). Sandbar willow scrub occupies 0.10 acre within pockets of the drainage on the project site.

Mule Fat Scrub

Mule fat scrub is a riparian scrub dominated by mule fat. This community is found in intermittent stream channels with fairly course substrate and moderate depth to the water table. Mule fat scrub is found in the northern portion of the drainage on the project site and occupies 0.01 acre of the study area.

METHODOLOGY

Surveys for LBV were conducted by PCR biologists Ezekiel Cooley and Amy Lee. Methods employed were in conformance with U.S. Fish and Wildlife Service (USFWS) *Least Bell's Vireo Survey Guidelines* issued January 19, 2001.[3] Accordingly, eight (8) surveys were conducted

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[2] *Holland, R. F. 1986. Preliminary Descriptions of the Terrestrial Natural Communities of California. Sacramento, California: State of California Resources Agency, Department of Fish and Game, Non-Game Heritage Program.*

[3] *U.S. Department of the Interior, Fish and Wildlife Service. January 19, 2001. Least Bell's Vireo Survey Guidelines. Ecological Services. Carlsbad Fish and Wildlife Office.*

between April 17 and July 28 within all portions of the project site containing potentially suitable habitat and adjacent habitat potentially used for foraging. Surveys were conducted no less than ten (10) days apart between dawn and 11:00 A.M. Weather conditions were suitable for surveys, with conditions ranging from clear to overcast skies and winds consisting of a slight breeze when present. Temperatures during surveys ranged between 51 and 76 degrees Fahrenheit.

The field investigators slowly walked along or within the suitable habitat, stopping intermittently to look and listen for LBV. Surveys were conducted on April 17, 27; May 12, 22; June 2, 12; July 4, 28, 2015. Survey details are listed in **Table 1**, *Survey Data*, below.

Table 1

Survey Data

Date	Time	Wind (mph) (start/end)	Temperature (F) (start-end)	Weather (start-end)	Results	Surveyors
04/17/15	0830 – 1100	0-1/0-1	55° – 74°	0% Cloud Cover –0% Cloud Cover	No LBV observed	Lee
04/27/15	0730 – 1000	0-1/0-1	55° – 69°	5% Cloud Cover – 0% Cloud Cover	No LBV observed	Lee
05/12/15	0800 – 1000	1-3/1-2	55° – 66°	100% Cloud Cover – 50% Cloud Cover	No LBV observed	Lee
05/22/15	0715 – 0915	0-1/0-1	51° – 58°	100% Cloud Cover – 70% Cloud Cover	No LBV observed	Cooley
06/02/15	0745 – 1000	0-1/1-2	56° – 66°	0% Cloud Cover – 0% Cloud Cover	No LBV Observed	Lee
06/12/15	0900 – 1100	0-1/0-1	61° – 67°	100% Cloud Cover – 100% Cloud Cover	No LBV observed	Lee
07/14/15	0620 – 0820	0-1/0-1	63° – 76°	100% Cloud Cover – 5% Cloud Cover	No LBV observed	Lee
07/28/15	0700 – 0900	0-1/1-2	67° – 70°	0% Cloud Cover – 0% Cloud Cover	No LBV observed	Cooley

Source: PCR Services Corporation, 2015.

RESULTS

No LBV were observed and/or detected within the project site during the 2015 surveys. A complete list of all avian species observed within the project site is included in **Appendix A**, *Avian Compendium*, attached.

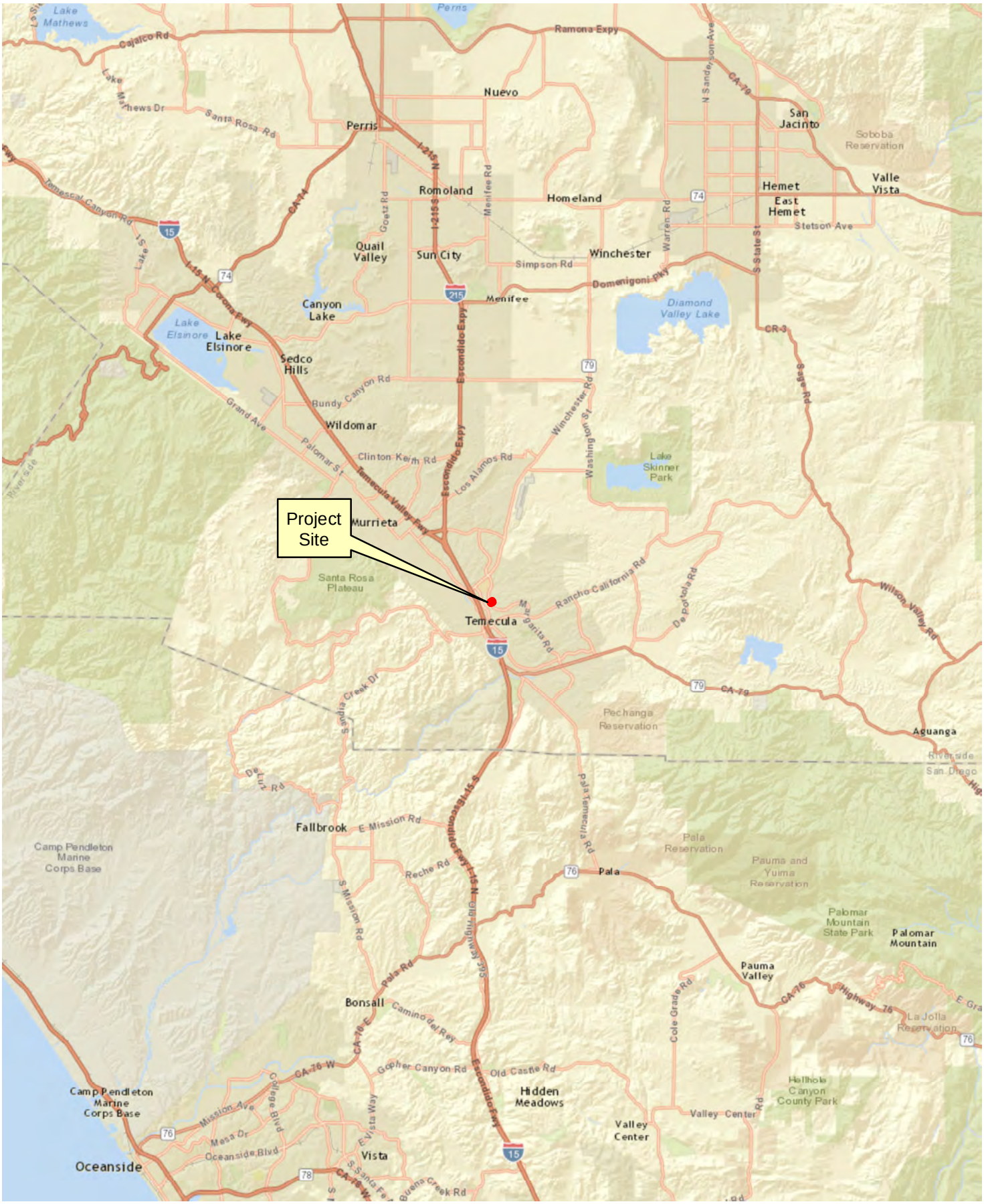
Should you have any questions concerning the methodology or findings in this report, please contact Ezekiel Cooley (e.cooley@pcrnet.com) or Amy Lee (a.lee@pcrnet.com) at (949) 753-7001.

Sincerely,
PCR SERVICES CORPORATION

Ezekiel Cooley
Senior Biologist I

Amy Lee
Biologist

Attachments:
Figure 1: Regional Map
Figure 2: Vicinity Map
Figure 3: Riparian Communities Surveyed
Appendix A: Avian Compendium



N

0 5 10 Miles

Regional Map

APNs_921-330-025, -026, -052, -053

Source: ESRI Street Map, 2009; PCR Services Corporation, 2015.

FIGURE

1

PCR

N

0 2,000 4,000 Feet

Vicinity Map

APNs_921-330-025, -026, -052, -053

Source: USGS Topographic Series (Murrieta, Temecula, CA); PCR Services Corporation, 2015.

FIGURE

2

PCR

0 75 150 Feet

Riparian Communities Surveyed

APNs_921-330-025, -026, -052, -053

Source: Google Earth, 2014 (Aerial); PCR Services Corporation, 2015.

FIGURE

3

Appendix A: Avian Compendium

BIRDS

SCIENTIFIC NAME	COMMON NAME
Anatidae	**Waterfowl**
Anas platyrhynchos	mallard
Charadriidae	**Plovers**
Charadrius vociferus	killdeer
Accipitridae	**Hawks**
Buteo lineatus	red-shouldered hawk
Falconidae	**Falcons**
Falco sparverius	American kestrel
Columbidae	**Pigeons and Doves**
Columba livia	rock pigeon
Zenaida macroura	mourning dove
Trochilidae	**Hummingbirds**
Calypte anna	Anna's hummingbird
Selasphorus sasin	Allen's hummingbird
Picidae	**Woodpeckers**
Picoides nuttallii	Nuttall's woodpecker
Tyrannidae	**Tyrant Flycatchers**
Empidonax difficilis	Pacific-slope flycatcher
Sayornis nigricans	black phoebe
Sayornis saya	Say's phoebe
Tyrannus vociferans	Cassin's kingbird
Vireonidae	**Vireos**
Vireo huttoni	Hutton's vireo
Corvidae	**Jays and Crows**
Aphelocoma californica	western scrub-jay
Corvus brachyrhynchos	American crow
Hirundinidae	**Swallows**
Petrochelidon pyrrhonota	cliff swallow
Stelgidopteryx serripennis	northern rough-winged swallow
Aegithalidae	**Bushtits**
Psaltriparus minimus	bushtit
Troglodytidae	**Wrens**
Troglodytes aedon	house wren
Thryomanes bewickii	Bewick's wren

*=Non-native/Invasive

BIRDS

SCIENTIFIC NAME	COMMON NAME
Turdidae	**Thrushes**
Turdus migratorius	American robin
Mimidae	**Thrashers**
Mimus polyglottos	northern mockingbird
Sturnidae	**Starlings**
* *Sturnus vulgaris*	European starling
Parulidae	**Wood Warblers**
Oreothlypis celata	orange-crowned warbler
Emberizidae	**Emberizids**
Melospiza melodia	song sparrow
Melozone crissalis	California towhee
Pipilo maculatus	spotted towhee
Cardinalidae	**Buntings, Grosbeak, and Tanagers**
Passerina caerulea	blue grosbeak
Icteridae	**Blackbirds**
Icterus cucullatus	hooded oriole
Fringillidae	**Finches**
Haemorhous mexicanus	house finch
Spinus psaltria	lesser goldfinch
Spinus tristis	American goldfinch

*=Non-native/Invasive

Appendix K

EPA Final Rule: The Navigable Waters Protection Rule

Final Rule: The Navigable Waters Protection Rule

On January 23, 2020, the U.S. Environmental Protection Agency (EPA) and the Department of the Army (Army) finalized the Navigable Waters Protection Rule to define “waters of the United States” (WOTUS). For the first time, the agencies are streamlining the definition so that it includes four simple categories of jurisdictional waters, provides clear exclusions for many water features that traditionally have not been regulated, and defines terms in the regulatory text that have never been defined before. Congress, in the Clean Water Act, explicitly directed the Agencies to protect “navigable waters.” The Navigable Waters Protection Rule regulates these waters and the core tributary systems that provide perennial or intermittent flow into them. The final rule fulfills Executive Order 13788 and reflects legal precedent set by key Supreme Court cases as well as robust public outreach and engagement, including pre-proposal input and comments received on the proposed rule. The final rule will become effective 60 days after publication in the *Federal Register*. Once effective, it replaces the rule published on October 22, 2019.

The EPA Administrator, Andrew Wheeler, along with Mr. R.D. James, the Assistant Secretary of the Army for Civil Works, signed the following final rule on January 23, 2020. EPA is submitting it for publication in the Federal Register (FR). While we have taken steps to ensure the accuracy of this Internet version of the rule, it is not the official version of the rule for purposes of public comment. Please refer to the official version in a forthcoming FR publication, which will appear on the Government Printing Office's FDsys website and on Regulations.gov in Docket No. EPA-HQ-OW-2018-0149. Once the official version of this document is published in the FR, this version will be removed from the Internet and replaced with the official version.

You may need a PDF reader to view some of the files on this page. See EPA’s About PDF page to learn more.

- The Navigable Waters Protection Rule: Definition of "Waters of the United States" - pre-publication version (PDF) (340 pp, 2 MB)

LAST UPDATED ON JANUARY 23, 2020

Appendix C – Energy Calculations

Building Energy Consumption Summary

Land Use	Electricity (MWh/year)	Natural Gas (MMBtu/year)
Congregate Care	455	1,277
Total	**455**	**1,277**

1. Electricity and Natural Gas Values Derived from CalEEMod Defaults.

Energy Calculations Summary

Operational Fuel Use Summary

Vehicle Class	Diesel Gallons	Gasoline Gallons
Passenger	107	17,687
Truck	5,687	15,439
Bus	150	423
Other	16	76
Total	**5,959**	**33,625**

1. Fleet mix calculated from CalEEMod default values.
2. Gallons per mile calculated from EMFAC 2014.
3. Annual VMT obtained from CalEEMod output file.

Energy Calculations Summary

Construction Fuel Usage Summary

	Diesel	Gasoline	Diesel	Diesel
Construction Phase	**Off-road Equipment (gallons)**	**On-road (gallons)**	**On-road (gallons)**	**Total**
2020	8,988	2,549	673	**9,661**
2021	15,933	5,220	1,481	**17,414**
TOTAL	**24,922**	**7,768**	**2,154**	**27,075**

Total Gasoline	**7,768**	**gallons**
Total Diesel	**27,075**	**gallons**

Instructions: Input all construction equipment by each phase and phase length and use CalEEMod outputs for amo

Phase 1 Construction Offroad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Site Prep	Tractors/Loaders/Backhoes	4	8	97	0.37	8	459
Site Prep	Rubber Tired Dozers	3	8.00	247	0.40	8	948
Grading	Rubber Tired Dozers	1	6.00	247	0.40	13	385
Grading	Tractors/Loaders/Backhoes	3	7.00	97	0.37	13	490
Grading	Excavators	1	8.00	158	0.38	13	312
Grading	Graders	1	6.00	187	0.41	13	299
Building Construction	Generator Sets	1	8.00	84	0.74	60	1,492
Building Construction	Cranes	1	6.00	231	0.29	60	1,206
Building Construction	Forklifts	3	6.00	89	0.20	60	961
Building Construction	Tractors/Loaders/Backhoes	3	6.00	97	0.37	60	1,938
Building Construction	Welders	1	8.00	46	0.45	60	497
						TOTAL	8,988

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from th

Number of days accounts for weekend where construction would not occur.

Trips and VMT

Phase Name	Daily Worker Trip	Daily Vendor Trip	Daily Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)
Site Prep	18	0	0	8	144	0	0	14.70
Grading	15	0	0	13	195	0	0	14.70
Building Construction	76	11	0	60	4,560	660	0	14.70

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips ar

ount, usage hours, horsepower, and load factor.

ne SCAQMD CEQA Air Quality Handbook, Table A9-3E.

Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	**Total gallons of gasoline**	**Total gallons of diesel**
6.90	20.00	2116.8	0	-	75	0
6.90	20.00	2,866.50	0.00	-	101	0
6.90	20.00	67,032.00	4,554.00	-	2,373	673
				TOTAL	2,549	673

re assumed to be 100% diesel Heavy-Duty Trucks (T7).

Instructions: Input all construction equipment by each phase and phase length and use CalEEMod outputs for a

Phase 2 Construction Offroad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Building Construction	Generator Sets	1	8.00	84	0.74	132	3,282
Building Construction	Cranes	1	6.00	231	0.29	132	2,653
Building Construction	Forklifts	3	6.00	89	0.20	132	2,115
Building Construction	Tractors/Loaders/Backhoes	3	6.00	97	0.37	132	4,264
Building Construction	Welders	1	8.00	46	0.45	132	1,093
Paving	Cement and	2	6.00	9	0.56	26	79
Paving	Pavers	1	8.00	130	0.42	26	568
Paving	Paving Equipmen	2	6.00	132	0.36	26	741
Paving	Rollers	2	6.00	80	0.38	26	474
Paving	Tractors/Loaders/Ba	1	8.00	97	0.37	26	373
Architectural Coating	Air Compress	1	6.00	78	0.48	26	292
						TOTAL	15,933

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is fror

Number of days accounts for weekend where construction would not occur.

Trips and VMT

Phase Name	Daily Worker Trip	Daily Vendor Trip	Daily Haul Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)
Building Construction	76	11	0	132	10032	1452	0	14.70
Paving	20	0	0	26	520	0	0	14.70
Architectural Coating	15	0	0	26	390	0	0	14.70

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trip

mount, usage hours, horsepower, and load factor.

n the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

Vendor Trip Length (miles)	Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	**Total gallons of gasoline**	**Total gallons of diesel**
6.90	20.00	147470.4	10018.8	-	5,220	1,481
6.90	20.00	7644	0	-	271	0
6.90	20.00	5733	0	-	203	0
				TOTAL	5,220	1,481

s are assumed to be 100% diesel Heavy-Duty Trucks (T7).

Instructions: Input EMFAC run for LDA, LDT1, LTD2 for gas, and T7 tractor construction for diesel into temp

EMFAC2014 (v1.0.7) Emissions Inventory
Region Type: County
Region: Riverside County
Calendar Year: 2020
Season: Annual
Vehicle Classification: EMFAC2011 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumptic

Region	CalYr	VehClass	MdlYr	Speed miles/hr	Fuel	Population vehicles
RIVERSIDE	2021	LDA	Aggregated	Aggregated	GAS	750300.86
RIVERSIDE	2021	LDT1	Aggregated	Aggregated	GAS	80587.479
RIVERSIDE	2021	LDT2	Aggregated	Aggregated	GAS	246596.51
RIVERSIDE	2021	T7 tractor construction	Aggregated	Aggregated	DSL	1473.8588

Notes: Consistent with CalEEMod, worker vehicles assumed to be

late below.

on

VMT miles/day	Trips trips/day	Fuel gas 1,000 gallons/day	Diesel gas 1,000 gallons/day	Miles per gallon	Gasoline miles per gallon
29816029.44	3552291.91	959.9773206	0.00	31.06	28.25
3017205.799	366690.8629	114.6030537	0.00	26.33	
9631963.535	1154462.896	392.0360383	0.00	24.57	
102372.4253	6663.258167	0.00	15.12990321	6.77	

gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

Diesel miles per gallon
6.77

Instructions: Input EMFAC data into input categories below. Use project-specific vehicle mix from CalEEM

EMFAC2014 (v1.0.7) Emissions Inventory
Region Type: County
Region: iRiverside County
Calendar Year: 2022
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consump

Region	CalYr	VehClass	Class	MdlYr	Speed
RIVERSIDE	2022	HHDT	Truck	Aggregated	Aggregated
RIVERSIDE	2022	HHDT	Truck	Aggregated	Aggregated
RIVERSIDE	2022	LDA	Passenger	Aggregated	Aggregated
RIVERSIDE	2022	LDA	Passenger	Aggregated	Aggregated
RIVERSIDE	2022	LDA	Passenger	Aggregated	Aggregated
RIVERSIDE	2022	LDT1	Truck	Aggregated	Aggregated
RIVERSIDE	2022	LDT1	Truck	Aggregated	Aggregated
RIVERSIDE	2022	LDT1	Truck	Aggregated	Aggregated
RIVERSIDE	2022	LDT2	Truck	Aggregated	Aggregated
RIVERSIDE	2022	LDT2	Truck	Aggregated	Aggregated
RIVERSIDE	2022	LHDT1	Truck	Aggregated	Aggregated
RIVERSIDE	2022	LHDT1	Truck	Aggregated	Aggregated
RIVERSIDE	2022	LHDT2	Truck	Aggregated	Aggregated
RIVERSIDE	2022	LHDT2	Truck	Aggregated	Aggregated
RIVERSIDE	2022	MCY	Passenger	Aggregated	Aggregated
RIVERSIDE	2022	MDV	Truck	Aggregated	Aggregated
RIVERSIDE	2022	MDV	Truck	Aggregated	Aggregated
RIVERSIDE	2022	MH	Other	Aggregated	Aggregated
RIVERSIDE	2022	MH	Other	Aggregated	Aggregated
RIVERSIDE	2022	MHDT	Truck	Aggregated	Aggregated
RIVERSIDE	2022	MHDT	Truck	Aggregated	Aggregated
RIVERSIDE	2022	OBUS	Bus	Aggregated	Aggregated
RIVERSIDE	2022	OBUS	Bus	Aggregated	Aggregated
RIVERSIDE	2022	SBUS	Bus	Aggregated	Aggregated
RIVERSIDE	2022	SBUS	Bus	Aggregated	Aggregated
RIVERSIDE	2022	UBUS	Bus	Aggregated	Aggregated
RIVERSIDE	2022	UBUS	Bus	Aggregated	Aggregated

Project VMT (mi/yr)	992,118	From CalEEMod output
Project Mobile Emissions (MT/yr)	431	From CalEEMod output

	Gas (gal)	Diesel (gal)
Passenger	17,687	107

Truck	15,439	5,687
Bus	423	150
Other	76	16
Total	33,625	5,959

Mod.

ption

Fuel	Population	VMT (mi/day)	Trips	Fuel_Consumption (1000 gal/day)
GAS	7.255052	664.5948944	145.1591	0.153526957
DSL	27819.82	3904544.33	319510.3	546.282737
GAS	772785.9	30295680.28	3658982	950.2947165
DSL	7300.591	301308.548	34943.72	5.779940701
ELEC	12758.75	507507.2353	64142.81	0
GAS	82772.07	3076687.964	377724.3	113.8535898
DSL	39.17988	864.4773595	128.3035	0.033396863
ELEC	485.0753	20119.80263	2469.361	0
GAS	252998	9768781.977	1185123	384.1060904
DSL	1463.535	64682.45233	7232.74	1.659413246
GAS	20620.88	680334.7046	307220.4	63.19981722
DSL	20161.77	691058.9252	253609.7	32.89019256
GAS	3286.375	107419.4478	48962.1	11.44267416
DSL	7795.761	266862.1937	98060.87	13.86114635
GAS	36240.66	267199.3063	72481.32	6.981836229
GAS	208995.2	7586687.895	958167.2	373.0302077
DSL	4324.736	181512.7606	21074.47	6.313517611
GAS	6006.899	48243.06745	600.9302	9.356650581
DSL	2591.606	20890.51499	259.1606	1.918810096
GAS	2027.159	107896.4899	40559.4	20.67464454
DSL	15610.04	974620.3351	149691.2	87.4960399
GAS	588.3426	26677.78704	11771.56	5.181782563
DSL	351.6439	25723.77662	3337.739	2.818940959
GAS	490.8818	19662.47585	1963.527	2.188356834
DSL	1154.013	36548.66018	13317.14	4.808896505
GAS	164.4552	23154.43353	657.8207	3.756059553
DSL	1.105798	58.57190354	4.423192	0.006566346

Fuel (gal/day)	mi/gal	CO2_RUNEX (tons/day)	CO2 (lb/day)	% of vehicle class EMFAC
153.5269575	4.328848206	1.446699669	2,893	0.000170182
546282.737	7.147478889	5626.036564	11,252,073	0.999829818
950294.7165	31.88029961	8782.860576	17,565,721	0.973996821
5779.940701	52.13004139	64.85350277	129,707	0.009686977
0	#DIV/0!	0	0	0.016316202
113853.5898	27.0231968	1051.511656	2,103,023	0.993225791
33.39686287	25.88498695	0.37472764	749	0.000279073
0	#DIV/0!	0	0	0.006495136
384106.0904	25.43250998	3547.515735	7,095,031	0.993422211
1659.413246	38.97911053	18.61935392	37,239	0.006577789
63199.81722	10.76482076	589.5774062	1,179,155	0.496090028
32890.19256	21.01109393	366.0101315	732,020	0.503909972
11442.67416	9.387617462	106.7381715	213,476	0.287001648
13861.14635	19.25253417	153.6434509	307,287	0.712998352
6981.836229	38.27063505	61.31854917	122,637	1
373030.2077	20.33799874	3440.876843	6,881,754	0.976633873
6313.517611	28.74986208	70.84047277	141,681	0.023366127
9356.650581	5.156018923	88.62668297	177,253	0.697823919
1918.810096	10.88722383	21.52990182	43,060	0.302176081
20674.64454	5.218783313	192.9231048	385,846	0.099671883
87496.0399	11.13902225	967.7033465	1,935,407	0.900328117
5181.782563	5.148380256	48.50339926	97,007	0.509102881
2818.940959	9.125333588	30.6917702	61,384	0.490897119
2188.356834	8.985040985	19.19753007	38,395	0.349796806
4808.896505	7.600217668	49.2398954	98,480	0.650203194
3756.059553	6.164554422	35.54644273	71,093	0.997476763
6.56634569	8.920015228	0.073677316	147	0.002523237

% vehicle class CalEEMod	% vehicle class project	VMT by project vehicle class (mi/yr)
0.026318	4.47884E-06	4.443538416
0.026318	0.026313521	26106.11799
0.578893	0.563839942	559395.7552
0.578893	0.005607723	5563.523288
0.578893	0.009445335	9370.886891
0.033999	0.033768684	33502.51889
0.033999	9.48821E-06	9.413424243
0.033999	0.000220828	219.0875628
0.21284	0.211439983	209773.4135
0.21284	0.001400017	1388.981641
0.010628	0.005272445	5230.88741
0.010628	0.005355555	5313.342694
0.004325	0.001241282	1231.49834
0.004325	0.003083718	3059.41201
0.005392	0.005392	5349.500256
0.104491	0.10204945	101245.0963
0.104491	0.00244155	2422.305646
0.000566	0.000394968	391.8551979
0.000566	0.000171032	169.6835901
0.018736	0.001867452	1852.733133
0.018736	0.016868548	16735.58972
0.001852	0.000942859	935.426925
0.001852	0.000909141	901.975611
0.000598	0.000209178	207.5297452
0.000598	0.000388822	385.7568188
0.001362	0.001358563	1347.855155
0.001362	3.43665E-06	3.409560509

Gasoline Sum
Diesel Sum

Gallons of fuel
1.026494394
3652.493193
17546.75339
106.7239377
0
1239.768897
0.363663473
0
8248.238717
35.63400042
485.9242459
252.8827252
131.1832683
158.9095744
139.7808071
4978.124818
84.25451361
75.99956549
15.5855701
355.0124659
1502.428969
181.6934412
98.84302883
23.09725081
50.75602249
218.6459983
0.382237073

33,625
5,959

Appendix D – MSHCP DBESP

Solana Senior Assisted Living Center Project

Determination of Biologically Equivalent or Superior Preservation

March 12, 2020 | GFL-01

Prepared for:

Griffin Living, LLC
24005 Ventura Boulevard
Calabasas, CA 91302

Prepared by:

HELIX Environmental Planning, Inc.
16485 Laguna Canyon Road
Suite 150
Irvine, CA 92618

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March 12, 2020 | GFL-01

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ACRONYMS AND ABBREVIATIONS

APN	Assessor's Parcel Number
BMP	Best Management Practices
BUOW	Burrowing Owl
CASSA	Criteria Area Species Survey Area
CDFW	California Department of Fish and Wildlife
CNDDB	California Natural Diversity Database
CNPS	California Native Plant Society
County	County of Riverside
City	City of Temecula
DBESP	Determination of Biologically Equivalent or Superior Preservation
Dudek	Dudek & Associates
GBRA	General Biological Resource Assessment
HELIX	HELIX Environmental Planning, Inc.
LBVI	least Bell's vireo
MSHCP	Multiple Species Habitat Conservation Plan
NEPSSA	Narrow Endemic Plant Species Survey Area
Project	Solana Senior Assisted Living Center
RWQCB	Regional Water Quality Control Board
USGS	U.S. Geologic Survey

Report Date:	March 12, 2020
Title:	Determination of Biologically Equivalent or Superior Preservation for The Solana Senior Assisted Living Center Project
Project Location:	The approximately 5.5-acre study area is located contiguous to the southeast corner of the intersection of Solana Way and Margarita Road in the City of Temecula, Riverside County, California. The site is located within the U.S. Geological Survey (USGS) 7.5-minute Murrieta quadrangle map in Township 7 South, Range 3 West
Assessor's Parcel Numbers:	921-330-025, -026, -052, and -053
Owner/Applicant:	Griffin Living, LLC 24005 Ventura Boulevard Calabasas, CA 91302
Principal Investigator:	HELIX Environmental Planning, Inc. 16485 Laguna Canyon Road Suite 150 Irvine, CA 92618 (619) 462-1515
Report Summary:	The approximately 5.5-acre study area includes the project site plus additional adjacent lands. The study area was surveyed for burrowing owl (*Athene cunicularia*) habitat, least Bell's vireo (*Vireo bellii pusillus*), MSHCP Riparian/Riverine Areas and Vernal Pools, rare plants, and jurisdictional features. No burrowing owls, least Bell's vireo, riparian/riverine species, vernal pools, or rare plants were observed on the study area. The study area does support riparian/riverine habitats.
Report Preparers:	Ezekiel Cooley (949) 234-8770 Daniel Torres
Field Personnel:	Ezekiel Cooley (949) 234-8770 Lauren Singleton Amy Lee

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1.0 INTRODUCTION

The Solana Senior Assisted Living Center Project (project) is located in the City of Temecula (City), Riverside County (County), California. At the request of Griffin Fine Living (Project Proponent), HELIX Environmental Planning, Inc. (HELIX) prepared this Determination of Biologically Equivalent or Superior Preservation (DBESP) analysis to address consistency of the proposed Solana Senior Assisted Living Center Project (project) with the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP; Dudek and Associates [Dudek] 2003), specifically with MSHCP Section 6.1.2. Consistency. MSHCP Section 6.1.2, Protection of Species Associated with Riparian/Riverine Areas and Vernal Pools, states:

> The purpose of the procedures described in this section is to ensure that the biological functions and values of these areas throughout the MSHCP Plan Area are maintained such that the habitat values for species inside the MSHCP Conservation Area are maintained.

For projects that propose impacts to riparian/riverine or vernal pool resources a Determination of Biologically Equivalent or Superior Preservation (DBESP) assessment must be completed to ensure that the proposed alternative provides for "replacement of any lost function and values of habitat as it relates to Covered Species." This DBESP analysis provides information necessary for the City to find that the project meets these objectives.

Biological surveys were conducted in 2015 and 2018 and a General Biological Resource Assessment (GBRA) report (HELIX 2020) was prepared for the project site. The information in this biological report was used to aid in preparation of this DBESP. This DBESP analysis provides information necessary for the City to determine if the project meets the MSHCP conservation objectives. In addition, the applicant will coordinate with the CDFW and RWQCB to ensure compliance with applicable permitting requirements.

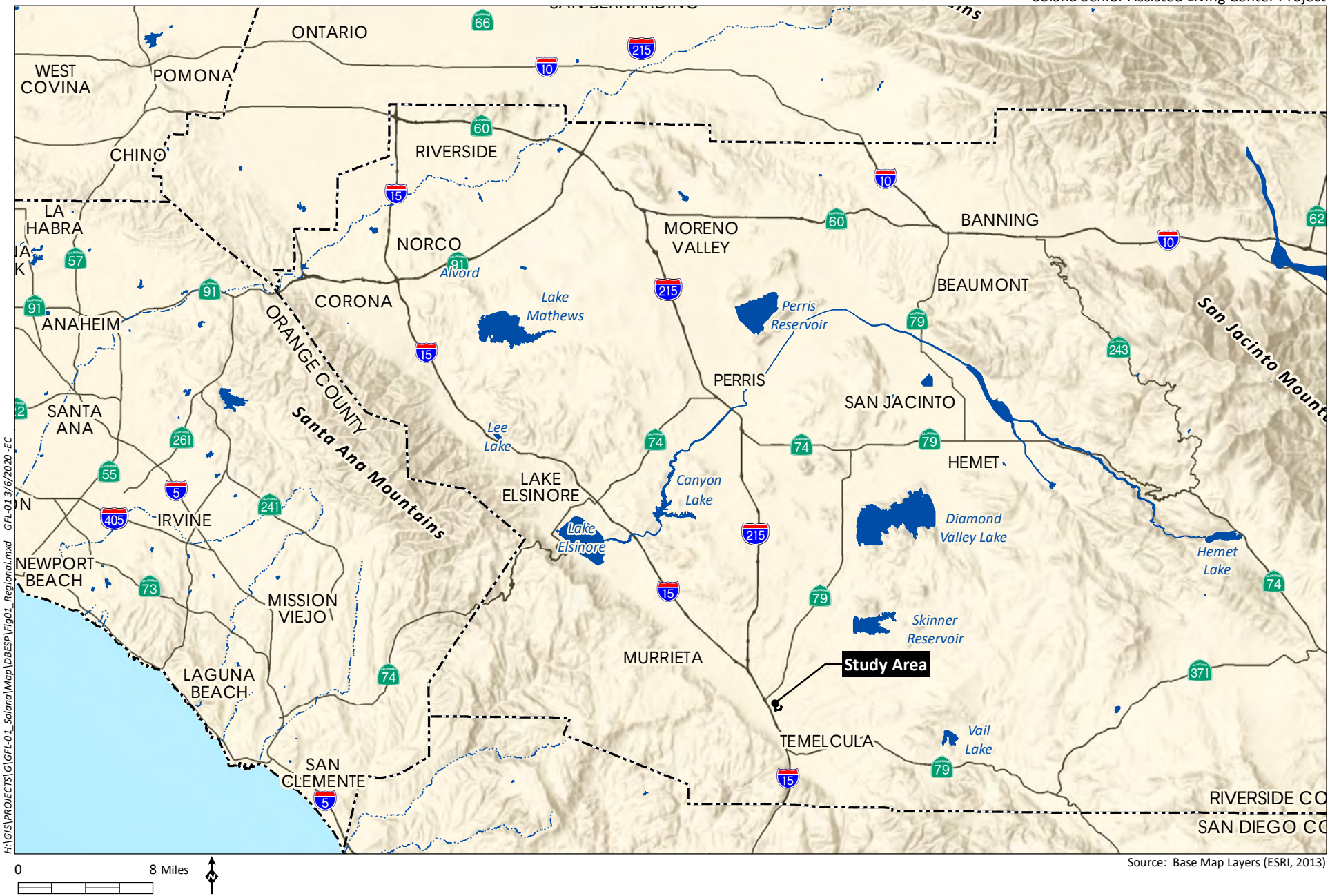
The project is not within a Narrow Endemic Plant Species Survey Area (NEPSSA) nor a Criteria Area Species Survey Area (CASSA). No NEPSSA or CASSA species were observed in the study area. This DBESP only addresses impacts and mitigation related to riparian/riverine resources.

1.1 PROJECT LOCATION

The approximately 4.70-acre project site comprises four parcels with Assessor's Parcel Number's 921-330-025, -026, -052, -and -053 in the City of Temecula, Riverside County, California. The study area is generally located southeast of the Interstate (I-) 15 and I-215 interchange (Figure 1, *Regional Location*). The study area is located within Township 7 South, Range 3 West of the U.S. Geological Survey (USGS) 7.5-minute Murrieta quadrangle map (Figure 2, *USGS Topography*). Specifically, the study area is located east of the intersection of Solana Way and Margarita Road (Figure 3, *Aerial Photograph*).

The project also includes an approximately 0.80 acre of off-site area located within the Solana Way and Via La Vida right-of-ways (ROWs). The off-site areas are located along the northwestern and southeastern project boundaries (Figure 3). For the purpose of this report, the project site and off-site areas are collectively referred to as the study area.

The study area is located within the Southwest Area Plan and is not located within or adjacent to an MSHCP Criteria Area; therefore, the study area is not subject to special conservation requirements that



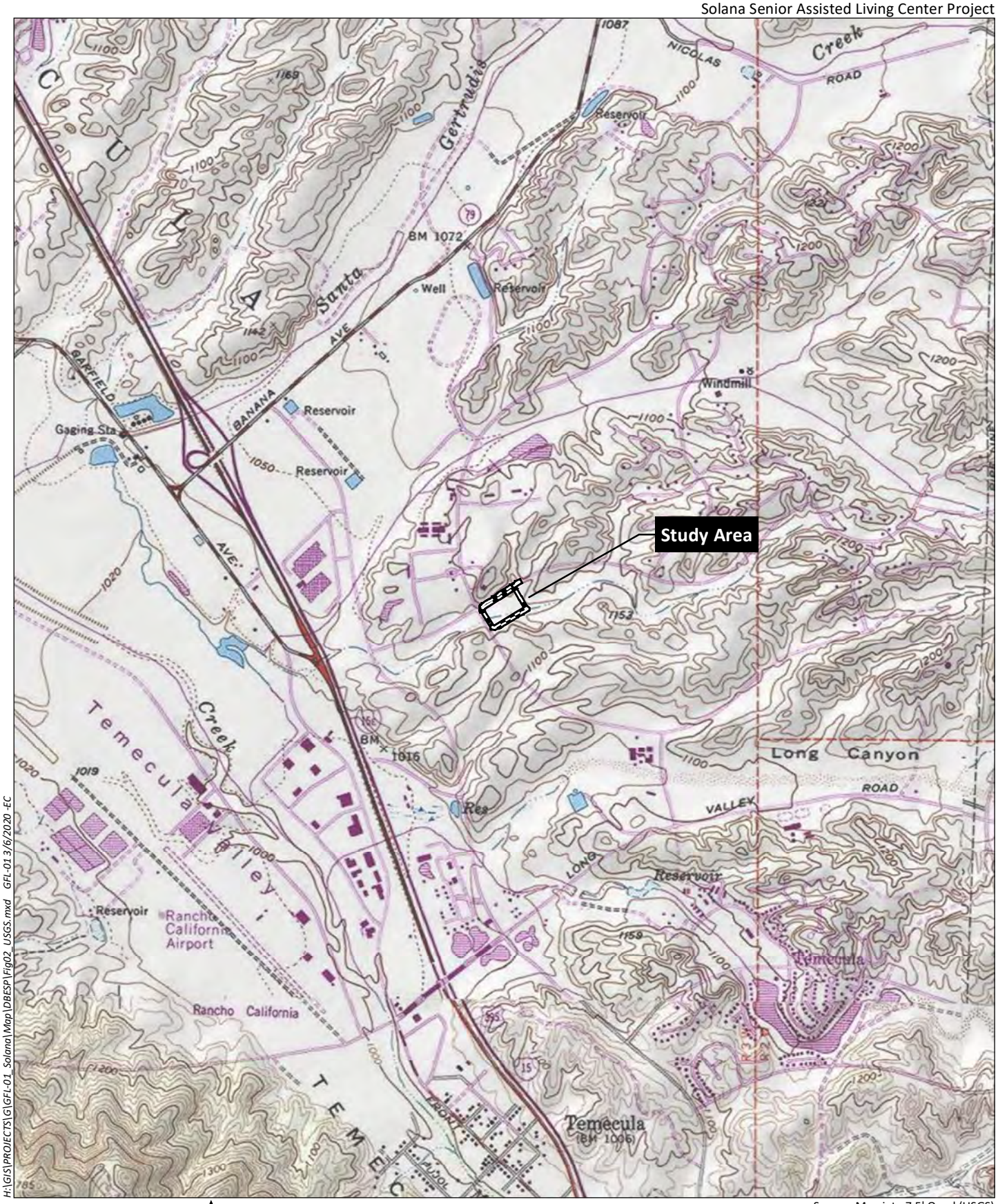
H:\GIS\PROJECTS\G\GFL-01_Solana\Map\DBESP\Fig01_Regional.mxd GFL-01 3/6/2020 -EC

Source: Base Map Layers (ESRI, 2013)

HELIX Environmental Planning

Regional Location

Figure 1



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0 2,000 Feet

Source: Murrieta 7.5' Quad (USGS)

HELIX Environmental Planning

USGS Topography

Figure 2

H:\GIS\PROJECTS\G\GFL-01_Solana\Map\DBESP\Fig03_Aerial.mxd GFL-01 3/6/2020 -EC

0 1,000 Feet

Source: Aerial (Riverside County, 2016)

HELIX Environmental Planning

Aerial Photograph

Figure 3

apply to cells and is not required to undergo the HANS process. The nearest criteria cell to the study area is Cell 6891, which located approximately 0.3 mile to the southwest (Figure 4, *MSHCP Criteria*). The study area is not located within or directly adjacent to any MSHCP Conservation Areas. The study area is located approximately 1.3 miles to the southwest of Constrained Linkage 13.

1.2 PROJECT DESCRIPTION

The proposed project is a senior assisted living center consisting of one building that is designed to include residential areas to accommodate assisted living and memory support units (Figure 5, *Site Plan*). The development would also include associated facilities, such as administration, dining/activity areas, a multi-purpose room, gardens, a courtyard, and parking spaces. Primary access to the development would be via Solana Way. Adjacent road improvements are proposed within the existing Solana Way and Via La Vida ROWs.

2.0 METHODS

Study area evaluation included a delineation of jurisdictional wetlands and waters, a Riparian/Riverine Areas and Vernal Pool habitat assessment, a burrowing owl (*Athene cunicularia*; BUOW) habitat assessment and focused survey, a least Bell's vireo (*Vireo bellii pusillus*; LBVI) protocol survey, and a general biological survey and habitat assessment for potential sensitive species to occur on the study area. The plant and animal species detected on the study area during field surveys are presented in Appendix A, *Plant Species Observed* and Appendix B*, Animal Species Observed or Detected*, respectively. Appendix C, *Site Photographs* contains representative photographs of the study area.

Full details on the various surveys are included in the project's General Biological Resource Assessment report (HELIX 2020). This DBESP specifically addresses the Riparian/Riverine Areas and Vernal Pool survey.

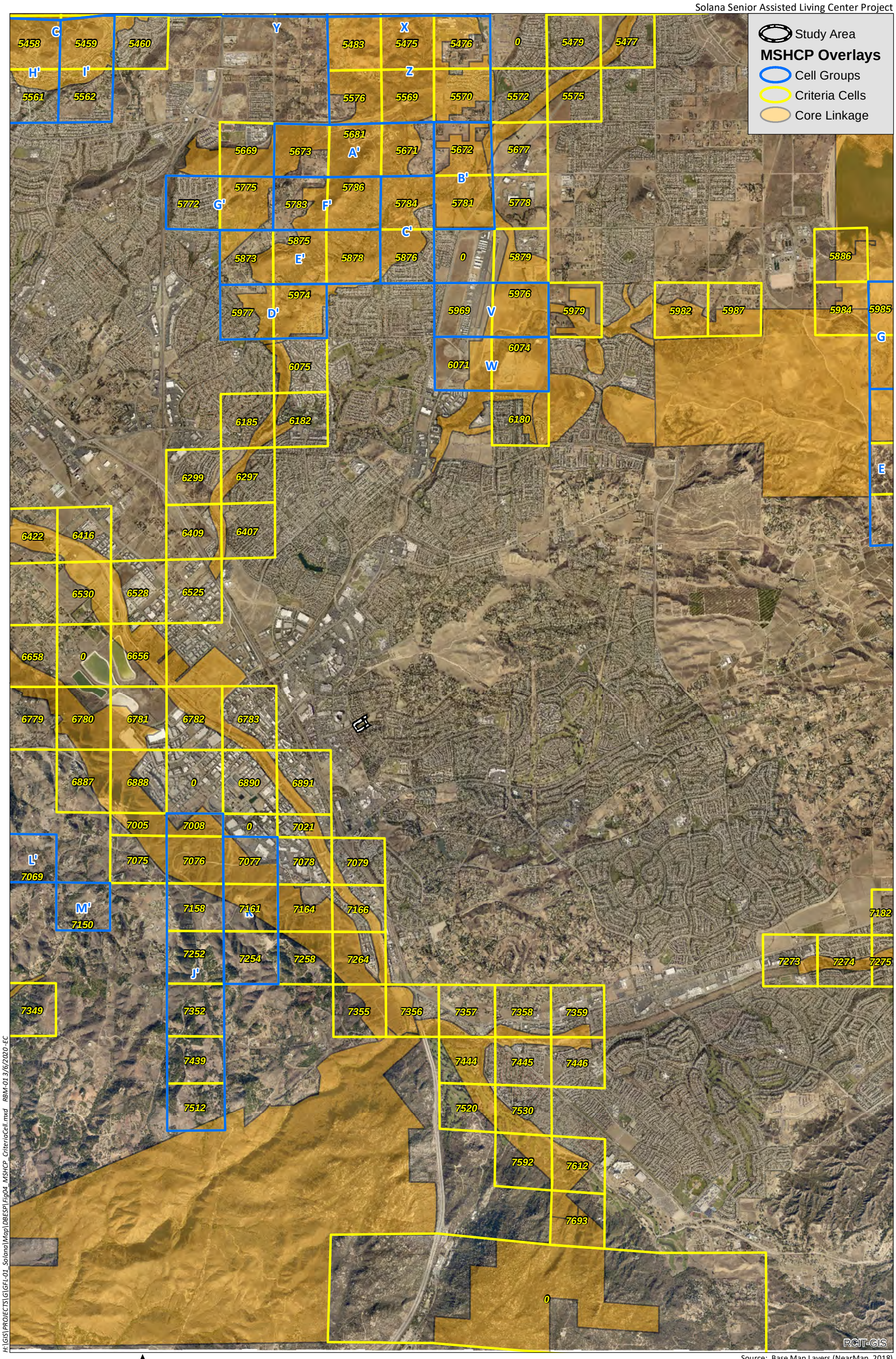
2.1 NOMENCLATURE AND LITERATURE REVIEW

Nomenclature used in this report generally follows MSHCP conventions. Vegetation community classifications follow Holland (1986) and the MSHCP (Dudek 2003). Latin names of plants follow Baldwin et al. (2012), and common names follow the California Native Plant Society (CNPS; 2019). Sensitive plant and animal status are taken from the California Natural Diversity Database (CNDDB) of the California Department of Fish and Wildlife (CDFW; 2019a, b, c, and d) and CNPS (2019). Fauna nomenclature follows Emmel and Emmel (1973) for butterflies, Taggart (2014) for amphibians and reptiles, American Ornithologists' Union (2018) for birds, and Baker et al. (2003) for mammals.

2.2 FIELD SURVEYS

2.2.1 Riparian/Riverine and Vernal Pool Habitat Assessment

Section 6.1.2 of the MSHCP defines Riparian/Riverine and Vernal Pool habitat as:



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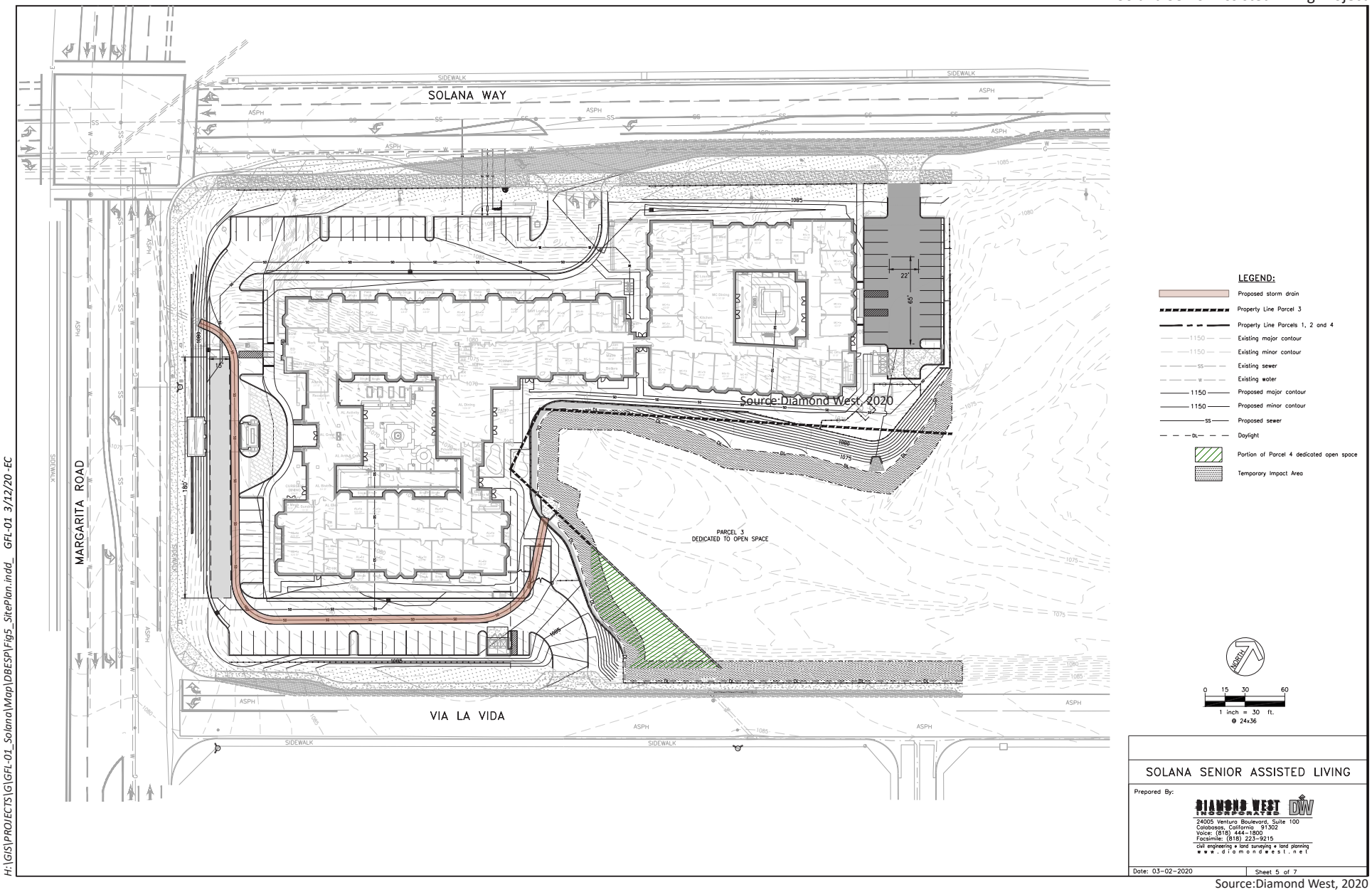
0 1,500 Feet

Source: Base Map Layers (NearMap, 2018)

HELIX Environmental Planning

MSHCP Criteria

Figure 4



Source:Diamond West, 2020

HELIX Environmental Planning

Site Plan

Figure 5

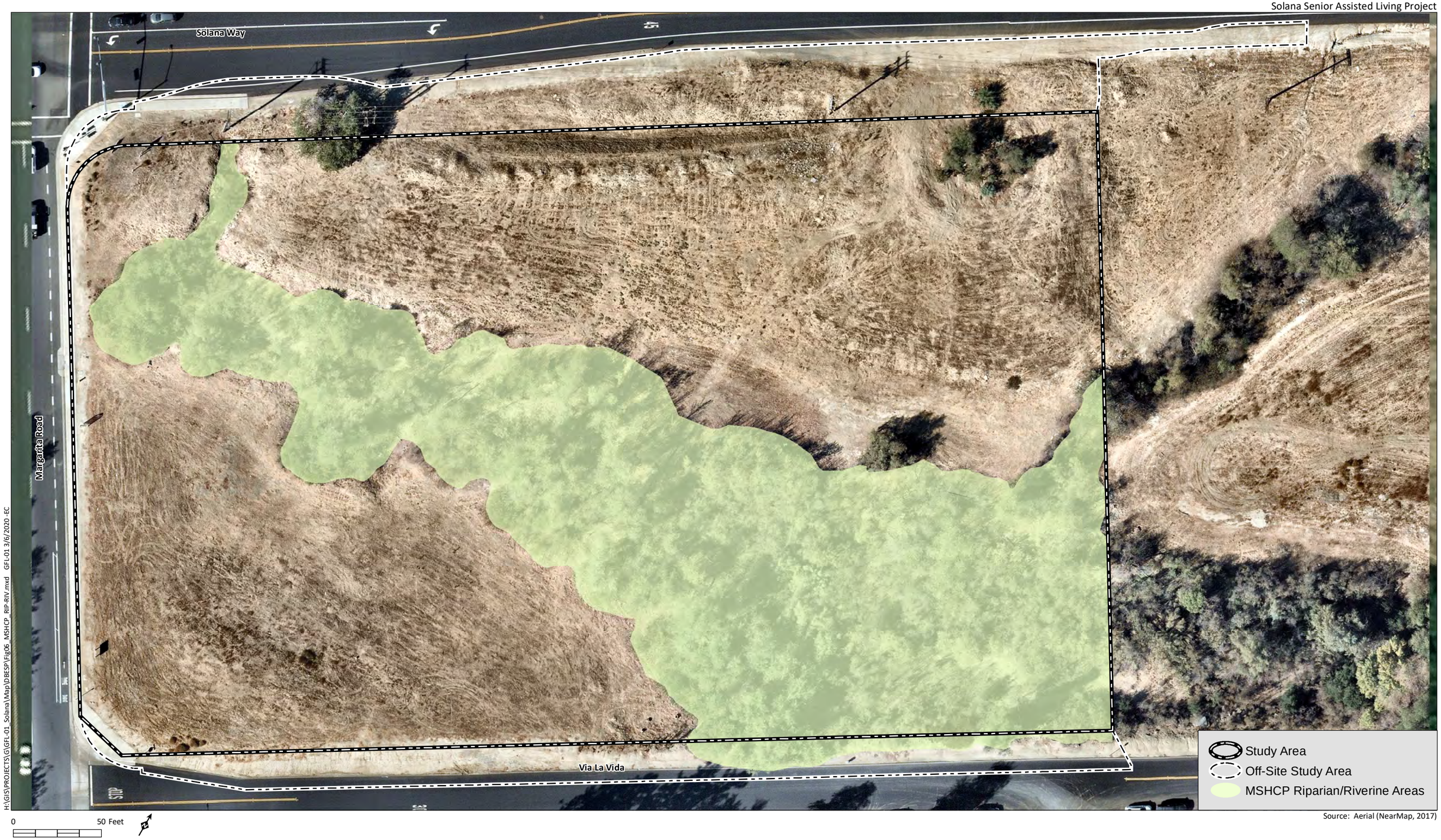
- Riparian/Riverine Areas are lands that contain habitat dominated by trees, shrubs, persistent emergents, or emergent mosses and lichens, which occur close to or depend upon soil moisture from a nearby fresh water source; or areas with freshwater flow during all or a portion of the year.

- Vernal pools are seasonal wetlands that occur in depression areas that have wetland indicators of all three parameters (soils, vegetation, and hydrology) during the wetter portion of the growing season but normally lack wetland indicators of hydrology and/or vegetation during the drier portion of the growing season. Obligate hydrophytes and facultative wetlands plant species are normally dominant during the wetter portion of the growing season, while upland species (annuals) may be dominant during the drier portion of the growing season. The determination that an area exhibits vernal pool characteristics and the definition of the watershed supporting vernal pool hydrology must be made on an individual basis. Such determinations should consider the length of time the area exhibits upland and wetland characteristics and the manner in which the area fits into the overall ecological system as a wetland. Evidence concerning the persistence of an area's wetness can be obtained from its history, vegetation, soils, and drainage characteristics, the uses to which the area has been subjected, and weather and hydrologic records.

A Riparian/Riverine Areas and Vernal Pool habitat assessment was conducted by Mr. Cooley on April 19, 2019 (Table 1, *Riparian/Riverine Habitats*). The assessment was conducted concurrently in the field with the jurisdictional assessment effort. The evaluation consisted of a directed search for field characteristics indicative of riparian/riverine or vernal pool habitats. Field indicators include presence of certain plant species, drainage courses, drainage patterns, ponded water, changes in soil character, changes in vegetation character, and deposits of water-borne debris. If Riparian/Riverine Areas and/or Vernal Pools are observed and project avoidance is not feasible, then a Determination of Biologically Equivalent Superior Preservation is required to quantify the impacts and establish compensatory mitigation.

Note that Section 6.1.2 of the MSHCP states that "areas demonstrating characteristics [of riparian/riverine habitat] which are artificially created are not included in these definitions" of riparian/riverine habitat. The identification of riparian/riverine and vernal pool habitats is based on the potential for the habitat to support riparian/riverine and vernal pool covered species, which are identified in Section 6.1.2 of the MSHCP. These species include least Bell's vireo and a suite of other animals and plants outlined in Section 6.1.2 of the MSHCP. During the field survey, the study area was evaluated for habitat that could support animals and/or plants identified by the MSHCP as riparian/riverine and vernal pool species.

The Riparian/Riverine habitat assessment identified a total of approximately 1.71 acres of Riparian/Riverine habitat in the study area (Figure 6, *MSHCP Riparian/Riverine Areas*). The habitat is comprised of less than 0.01 acre of streambed, less than 0.01 acre of mule fat scrub, and 1.70 acre of southern willow scrub (Table 1). The Riparian/Riverine habitats that meet the MSHCP definition occurs within the drainage complex flowing east-west through the center of the study area. Southern willow scrub is typically habitat for sensitive riparian birds but the habitat on the study area is isolated and of moderate quality. The habitat is regularly subject to human encampments located under the canopy of the southern willow scrub. Beneath the riparian canopy only herbaceous vegetation is present and is mostly comprised of ruderal vegetation similar to the surrounding disturbed uplands.



Source: Aerial (NearMap, 2017)

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HELIX Environmental Planning

MSHCP Riparian/Riverine Areas

Figure 6

Table 1
RIPARIAN/RIVERINE HABITATS

Habitat	On-Site (acres)[1]	Off-Site (acres)[1]	Total (acres)[1]
Riparian Habitat			
Mule Fat Scrub	<0.01	0.00	**<0.01**
Southern Willow Scrub	1.65	0.05	**1.70**
Riverine Streambed			
Streambed	0.01		0.01
TOTAL	**1.66**	**0.05**	**1.71**

[1] Acreage rounded to nearest 0.01

The majority of the Riparian/Riverine habitats are located in the central portion of the study area where an unnamed drainage/streambed crosses the study area. The vegetation in and along this drainage includes the southern willow scrub and a small area of mule fat scrub. The functions and services of the reaches of the drainages are limited, consisting of conveying water, sediment trapping and transport, toxicant trapping, and nutrient trapping and transport. In addition, this drainage connection to downstream resources with the potential to support species shown in Section 6.1.2 of the MSHCP is limited to a storm drain connection of over one mile in length.

2.2.1.1 Riparian/Riverine and Vernal Pool Plants

The MSHCP requires that all projects are assessed for potential to support sensitive plants associated with riparian/riverine and vernal pool habitats. The MSHCP lists 23 sensitive plant species that have potential to occur in riparian/riverine and vernal pool habitats. These species are:

- Brand's phacelia (*Phacelia stellaris*),
- California black walnut (*Juglans californica*),
- California Orcutt grass (*Orcuttia californica*),
- Coulter's matilija poppy (*Romneya coulteri*),
- Engelmann oak (*Quercus engelmannii*),
- Fish's milkwort (*Polygala cornuta* var. *fishiae*),
- graceful tarplant (*Holocarpha virgata* ssp. *elongata*),
- lemon lily (*Lilium parryi*),
- Mojave tarplant (*Deinandra mohavensis*),
- mud nama (*Nama stenocarpum*),
- ocellated Humboldt lily (*L. humboldtii* ssp. *ocellatum*),
- Orcutt's brodiaea (*Brodiaea orcuttii*),
- Parish's meadowfoam (*Limnanthes gracilis* var. *parishii*),
- prostrate navarretia (*Navarretia prostrata*),
- San Diego button-celery (*Eryngium aristulatum* var. *parishii*),

- San Jacinto Valley crownscale (*Atriplex coronata* var. *notatior*),
- San Miguel savory (*Clinopodium chandleri*),
- Santa Ana River woolly-star (*Eriastrum densifolium* ssp*. sanctorum*),
- slender-horned spineflower (*Dodecahema leptoceras*),
- smooth tarplant (*Centromadia pungens* ssp*. laevis*),
- spreading navarretia (*Navarretia fossalis*),
- thread-leaved brodiaea (*Brodiaea filifolia*), and
- vernal barley (*Hordeum intercedens*).

Based on the site visits conducted in 2019, **the plant species associated with Riparian/Riverine and Vernal Pool areas were presumed to be absent from the study area.** A number of the species including Brand's phacelia, California Orcutt grass, Fish's milkwort graceful tarplant, lemon lily, Mojave tar plant, mud nama, ocellated Humboldt lily, Orcutt's brodiaea, Parish's meadowfoam, prostrate navarretia, San Diego button-celery, San Jacinto Valley crownscale, San Miguel savory, Santa Ana River woolly-star, spreading navarretia, thread-leaved brodiaea, and vernal barley occur in habitats that do not occur on the study area (e.g., vernal pools) or have distributions well outside of the study area. The remaining species have a distribution that includes the study area or occur in habitats found on the study area and are discussed in greater detail below.

Coulter's Matilija poppy occurs in dry washes and canyons below 3,600 feet. It often occurs within sage scrub and chaparral habitats. Dense shrub cover may limit expansion of this species (Dudek 2003). This species is easily detected when present. **This species was not observed and is presumed absent from the study area.**

Engelmann oak is a conspicuous tree species associated with alluvial fans and slopes with a mesic aspect. Coast live oak trees occur on the study area. **No Engelmann oaks were observed and is presumed to be absent from the study area.**

Mud nama is restricted to muddy embankments of marshes and swamps and within lake margins and riverbanks (CNPS 2019). Three populations are known from Riverside County, with two occurring along the San Jacinto River (Dudek 2003). **This species was not observed and is presumed to be absent from the study area.**

Slender-horned spineflower is typically found in mature alluvial scrub with sandy soils but is also found in rocky soils and open chamise chaparral. Ideal habitat is thought to be benches or terraces that receive overbank flow every 50 to 100 years. Habitat for this species does not occur on the study area. **This species was not observed and is presumed to be absent from the study area.**

Smooth tarplant is found in southwestern California and northwestern Baja California, Mexico (Baja), and occurs in San Bernardino, Riverside, and San Diego counties. This species occurs in open spaces within a variety of habitats, including alkali scrub and playas, riparian woodland, watercourses, and grasslands with alkaline affinities (Dudek 2003; CNPS 2019). This species has CNDDB records within one mile of the study area but was not observed in the study area **and is presumed to be absent from the study area.**

Southern California black walnut is found on slopes, canyons, and riparian areas below 3,000 feet. This species is generally associated with chaparral, coastal scrub, cismontane woodland, and riparian woodland. This species is conspicuous when present. **No southern California black walnuts were observed and are presumed to be absent from the study area.**

None of the 23 MSHCP Riparian/Riverine and Vernal pool plant species were observed on the study area and none are expected to occur within the study area. A list of plant species observed during the field surveys are provided as Appendix A.

2.2.1.2 Riparian Birds

Section 6.1.2 of the MSHCP list five sensitive bird species associated with riparian/riverine habitats. The species are bald eagle (*Haliaeetus leucocephalus*), peregrine falcon (*Falco peregrinus*), least Bell's vireo, southwestern willow flycatcher, and western yellow-billed cuckoo (*Coccyzus americanus occidentalis*). Both the bald eagle and peregrine falcon occur primarily in and adjacent to open water habitats, with the falcon possibly occurring in riparian areas with nearby cliffs for nesting. The study area includes 1.70 acre of southern willow scrub and less than 0.01 acre of mule fat scrub. This habitat is of limited size, isolated, surrounded by development, lacks an understory, and is disturbed from encampments under the canopy. Of these bird species, the riparian/riverine areas on the study area supports suitable habitat for least Bell's vireo (LBVI). **Focused surveys for LBVI were conducted in 2015 and 2018 and the survey results were negative for this species.**

2.2.1.3 Invertebrates – Vernal Pool Branchiopods

There are three species of sensitive fairy shrimp that occur in the western County, including Riverside fairy shrimp (*Streptocephalus woottoni*), Santa Rosa Plateau fairy shrimp (*Linderiella santarosae*), and vernal pool fairy shrimp (*Branchinecta lynchi*). Vernal pool fairy shrimp occurs throughout the Central Valley and in several disjunct populations in Riverside County. This species exists in vernal pools and other ephemeral basins often located in patches of grassland and agriculture interspersed in coastal sage scrub and chaparral. Riverside fairy shrimp occurs in Riverside, Orange, and San Diego Counties as well as in northern Baja California, Mexico. This species is typically found in deeper vernal pools and other ephemeral basins that hold water for long periods of time (30 or more days). Santa Rosa Plateau fairy shrimp is limited to the Santa Rosa Plateau in Riverside County.

The study area was evaluated for suitable habitat, such as vernal pools or ephemeral ponds. Indicators of potential fairy shrimp habitat include, but are not limited to, mima-mound complexes, depressions, road ruts, algal/biotic crusts, and cracked soils**. No suitable habitat occurs within the study area for these species, and no focused surveys were conducted or are required.**

2.2.1.4 Fish

The Santa Ana sucker (*Catostomus santaanae*) is the only fish included on the MSHCP Riparian/Riverine and Vernal Pool animal species list. The Santa Ana sucker is restricted to the Santa Ana River watershed with year-round flows. This species generally lives is small shallow streams less than seven meters wide with various current strengths. They require permanent streams with a gravel bottom preferred and with cool, clear water but can tolerate turbid waters. **Habitat for this species is not present on the study area; thus, this species is not expected to occur.**

2.2.1.5 Amphibians

The MSHCP includes three amphibians on the Riparian/Riverine and Vernal Pool animal species list: arroyo toad (*Anaxyrus californicus*), mountain yellow-legged frog (*Rana muscosa*), and California red-legged frog (*Rana aurora draytonii*). **The study area was searched for suitable aquatic habitat (i.e., streams, ponds, reservoirs, etc.) that could support these species.**

Arroyo toad occur in streams that have breeding pools that are shallow with minimal current. Requirements also include sandy banks with areas of minimal vegetative cover. A minimal amount of streambed does occur on the study area. However, it is of limited size and of poor quality and is ephemeral. Mountain yellow-legged frog and California red-legged frog are not known to occur on or adjacent to the study area. The mountain yellow-legged frog occurs in mountain streams and is currently only known within the County in the San Jacinto Mountains. The California red-legged frog is only known within the County on the Santa Rosa Plateau. It requires deep water with adjacent uplands to move between breeding sites. **Habitat for these species does not occur on the study area; thus, none of the MSHCP sensitive amphibian species are expected to occur.**

Additionally, the Study Area is not located within the Amphibian Species Survey Area prescribed in the MSHCP. Therefore, surveys for sensitive amphibian species (arroyo toad, California red-legged frog, and mountain yellow-legged frog) are not required and were not conducted.

2.2.2 Narrow Endemic Plant Species Survey Area

The study area is not within a NEPSSA prescribed in the MSHCP**. Therefore, surveys applicable to NEPSSA are not required and were not conducted.**

2.2.3 Criteria Area Species Survey Area

The study area is not located within a CASSA prescribed in the MSHCP. **Therefore, surveys applicable to CASSA are not required and were not conducted.**

3.0 RIPARIAN/RIVERINE IMPACTS

As described above, the emphasis of the MSHCP's riparian/riverine and vernal pool policy is on conservation of habitats capable of supporting MSHCP Covered Species. The goal of the DBESP process is to determine if the project has in fact provided for a project alternative that results in biologically equivalent or superior preservation. The priority for riparian/riverine habitats that have potential to contribute to the biological values of the MSHCP preserve is avoidance of direct impacts. Due to the rolling topography and small size of the site avoidance of impacts would result in a no project alternative.

Of the total 1.71 acres riparian/riverine resources in the study area, proposed permanent impacts to riparian/riverine habitat total 0.58 acre and are comprised of 0.57 acre of southern willow scrub and less than 0.01 acre of mule fat scrub (Figure 7, *Impacts to MSHCP Riparian/Riverine Areas*; Table 2, *Impacts to MSHCP Riparian/Riverine Resources*). Proposed temporary impacts to riparian/riverine habitat total 0.23 acre of southern willow scrub.

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Source: Aerial (NearMap, 2017)

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Impacts to MSHCP Riparian/Riverine Areas

Figure 7

Table 2
IMPACTS TO MSHCP RIPARIAN/RIVERINE RESOURCES

RIPARIAN/RIVERINE RESOURCES	Existing (acres)[1]	Permanent Impacts (acres)[1]	Temporary Impacts (acres)[1]	Avoided (acres)[1]
Riparian				
Mule Fat Scrub	<0.01	<0.01	0.00	0.00
Southern Willow Scrub	1.70	0.57	0.23	0.90
SUBTOTAL	*1.70*	*0.57*	*0.23*	*0.90*
Riverine				
Streambed	0.01	<0.01	0.00	0.00
SUBTOTAL	*0.01*	*<0.01*	*0.00*	*0.00*
TOTAL	**1.71**	**0.58**	**0.23**	**0.90**

[1] Acreage rounded to nearest 0.01, with totals showing effects of rounding.

As noted above, plant and animal species associated with riparian/riverine and vernal pool habitats do not occur in the study area. **None of the species covered under Section 6.1.2 occur in the study area as evident by a lack of potential habitat or where habitat occurs the species have not been observed.**

The riparian/riverine habitats proposed to be impacted do not support riparian/riverine target species. The southern willow scrub is currently impacted from use as a homeless campsite which significantly reduces the habitat potential to support sensitive species and results in a removal of the understory. The functions of the Riverine streams in the study area are primarily water conveyance, sediment transport, and energy dissipation (hydrologic regime and flood attenuation). The southern willow scrub habitat provides all of the above along with providing habitat for nesting birds.

4.0 AVOIDANCE, MINIMIZATION, AND MITIGATION MEASURES

Proposed mitigation measures listed below shall reduce potential significant impacts to a level below significant.

4.1 AVOIDANCE

MSHCP Section 6.1.2 states:

> "The purpose of the procedures described in this section is to ensure that the biological functions and values of these areas throughout the MSHCP Plan Area are maintained such that Habitat values for species inside the MSHCP Conservation Area are maintained."

And that:

> "[f]or identified and mapped resources not necessary for inclusion in the MSHCP Conservation Area, applicable mitigation under CEQA, which may include federal and state regulatory standards related to wetland functions and values, will be imposed by the Permittees. To ensure that these standards are met, Permittees shall ensure that

through the CEQA process, project applicants develop project alternatives demonstrating efforts that first avoid, and then minimize direct and indirect effects to the mapped wetlands and shall review these alternatives with the Permittee. An avoidance alternative shall be selected, if feasible. If an avoidance alternative is selected, measures shall be incorporated into the project design to ensure the long-term conservation of the areas to be avoided.

If an avoidance alternative is not feasible, a practicable alternative that minimizes direct and indirect effects to riparian/riverine areas and vernal pools and associated functions and values to the greatest extent possible shall be selected. Those impacts that are unavoidable shall be mitigated such that the lost functions and values as they relate to Covered Species are replaced as set forth below under the Determination of Biologically Equivalent or Superior Preservation."

The first priority for riparian/riverine habitats that have potential to contribute to MSHCP preserve biological values is avoidance of direct impacts. The study area and therefore the riparian/riverine resources are not within an MSHCP Conservation Area, however, the resources within the study area can contribute to downstream resources that are within the MSHCP Conservation Area. The connection to downstream resources is via storm drain, and as such limits the value that the study area resource has to downstream resources.

The riparian/riverine resources in the Study Area are located in the center of the site at the bottom of the slopes. Complete avoidance of the riparian/riverine resources would result in a no-project alternative due to the topography present on the relatively small study area. As currently designed the project avoids impacts to 0.90 acre of the total 1.71 acres of riparian/riverine resources that occur on the study area. Additionally, 0.23 acre of Riparian resources will be temporarily impacted, returned to pre-project contours, and re-planted following slope grading activities. A revegetation plan for temporarily impacted areas will be submitted to the resource agencies as part of subsequent regulatory permitting.

4.2 MITIGATION

Mitigation measures that would result in equivalent or superior preservation of the functions and values of riparian/riverine resources impacted by the project are shown here.

Mitigation for impacts to riparian/riverine resources are proposed at a total 3:1 ratio:

- a ratio of 2:1 will be through mitigation credits at the Riverpark Mitigation Bank in the San Jacinto Watershed
- and a ratio of 1:1 will be through mitigation credits at the Skunk Hollow Mitigation Bank in the Santa Margarita Watershed.

These options will provide for mitigation within a much broader regional conservation context with resources that will be of an equal or greater conservation value to the impacted southern willow scrub and mule fat scrub streambed habitats. The mitigation is proposed to occur at a 3:1 ratio through a combination of mitigation credits including the following:

- RE-ESTABLISHMENT: Riverpark Mitigation Bank through the purchase of streambed re-establishment credits at a 1:1 ratio,
- REHABILITATION: Riverpark Mitigation Bank through the purchase of streambed rehabilitation credits at a 1:1 ratio, and
- PRESERVATION: Skunk Hollow Mitigation Bank through the purchase of preservation credits at a 1:1 ratio.

The 1:1 ratio of streambed reestablishment credits are intended to compensate for permanent riparian/riverine impacts, while a 1:1 ratio for rehabilitation is intended to compensate for the temporal loss of riparian habitat. The 1:1 ratio of streambed preservation credits within the Skunk Hollow Mitigation Bank are intended to compensate for the re-establishment and rehabilitation mitigation occurring outside of the watershed at the River Park Mitigation Bank. This provides for a total of 3:1 mitigation-to-impacts ratio to be provided for the project. As such, mitigation through the Riverpark and Skunk Hollow Mitigation Banks for impacts to Riparian/Riverine areas will be biologically equivalent or superior to resources being impacted by the proposed project.

Table 3
MITIGATION FOR IMPACTS TO RIPARIAN/RIVERINE RESOURCES

Mitigation Credit Type (Mitigation Bank)	Mitigation Ratio	Mitigation Acreage
Reestablishment (Riverpark)	1:1	0.58
Rehabilitation (Riverpark)	1:1	0.58
Preservation (Skunk Hollow)	1:1	0.58
Total	**3:1**	**1.74**

Mitigation measures to minimize impacts to waters include:

- Use of standard Best Management Practices (BMPs) to minimize the impacts during construction;

- Storage of equipment in upland areas, outside of drainages except as required by project design (restoration, trash removal, etc.);

- Implementation of source control and treatment control BMPs to minimize the potential contaminants that are generated during and after construction. Source control BMPs include landscape planning, roof runoff controls, trash storage areas, use of alternative building materials, and education of future tenants and residents. Treatment control BMPs includes detention basins, vegetated swales (bio-swales), drain inlets, and vegetated buffers. Water quality BMPs will be implemented throughout the project to capture and treat contaminants.

- Keeping the project clean of debris to the extent possible to avoid attracting predators. All food-related trash items shall be enclosed in sealed containers and regularly removed from site.

- Strict limitation of employee activities, vehicles, equipment, and construction material to the proposed project footprint, staging areas, and designated routes of travel.

- Fencing construction limits with orange snow screen and maintenance of exclusion fencing until the completion of construction activities.

Consistency with MSHCP Section 6.1.4

The following measures will be implemented by the project to minimize the identified potential indirect impacts, including:

- All project runoff will be treated prior to exiting the site to reduce toxins.
- Detention basins proposed within the project footprint will ensure that there is no increase in flows from the project.
- No plants included on the California Exotic Pest Plant Council's list of invasive species (or in Table 6-2 of the MSHCP) will be used anywhere on the site, and only native species will be planted adjacent to open space areas. A list of prohibited species will be provided to homebuyers.
- The proposed project has been designed so that no additional take of conserved habitat, including Riparian/Riverine, will be necessary for fuel modification purposes.
- Manufactured slopes associated with the proposed site development will not extend into the MSHCP conservation area.

The above measures would serve to minimize the adverse effects of the project on conservation configuration and would minimize management challenges that can arise from development located adjacent to conserved habitat or that have potential to affect downstream conserved habitat.

5.0 CONCLUSION

The project is being implemented consistent with Section 6.1.2 of the MSHCP based on the following:

- No plant species targeted for conservation in Section 6.1.2 are known or expected to occur within the Riparian/Riverine areas proposed for impact.
- The project grading has been designed to avoid impacts to adjacent Riparian/Riverine areas.
- Edge effects (including lighting, noise, trash/debris, urban and stormwater run-off, toxic materials, exotic plant and animal infestation, dust, trampling, and unauthorized recreation) to the MSHCP conservation area shall be minimized by the measures described in Section 6.1.4 and by landscaping, elevation difference, minimization of effects, and compensatory mitigation.
- Temporary impacts to 0.23 acre of riparian habitat will be mitigated by returning the area to pre-project contours and re-vegetation. Re-vegetation will be implemented based on an implementation and monitoring plan that will be developed during the permitting process and conditioned by the City for approval.

- Compensatory mitigation for direct permanent impacts to 0.58 acre will total 1.74 acres composed of off-site purchase of credits from the River Park and Skunk Hollow Mitigation Banks. The credits will offset losses of riparian/riverine function and value.

- **Based on this DBESP assessment, the project is consistent with Section 6.1.2.**

6.0 CERTIFICATION/QUALIFICATION

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this biological evaluation, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

DATE: March 12, 2020 SIGNED:

Ezekiel Cooley
Biologist/Project Manager
HELIX Environmental Planning, Inc.

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Appendix E - Phase 1 ESA

PARTNER
Engineering and Science, Inc.®

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

Temecula ALMC
Southeast Corner of Margarita Road and Solana Way
Temecula, California 92591

Report Date: June 14, 2019
Partner Project No. 19-248531.1

Prepared for:

Griffin Fine Living, LLC
24005 Ventura Boulevard
Calabasas, California 91302

June 14, 2019

Mr. Sean Illes
Griffin Fine Living, LLC
24005 Ventura Boulevard
Calabasas, California 91302

Subject: Phase I Environmental Site Assessment
Temecula ALMC
Southeast Corner of Margarita Road and Solana Way
Temecula, California 92591
Partner Project No. 19-248531.1

Dear Mr. Illes:

Partner Engineering and Science, Inc. (Partner) is pleased to provide the results of the *Phase I Environmental Site Assessment* (Phase I ESA) report of the abovementioned address (the "subject property"). This assessment was performed in conformance with the scope and limitations as detailed in the ASTM Practice E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

This assessment included a site reconnaissance as well as research and interviews with representatives of the public, property ownership, site manager, and regulatory agencies. An assessment was made, conclusions stated, and recommendations outlined.

We appreciate the opportunity to provide environmental services to you. If you have any questions concerning this report, or if we can assist you in any other matter, please contact me at (310) 615-4500.

Sincerely,

Arcie Propster
Principal

EXECUTIVE SUMMARY

Partner Engineering and Science, Inc. (Partner) has performed a Phase I Environmental Site Assessment (ESA) in accordance with the scope of work and limitations of ASTM Standard Practice E1527-13, the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (AAI) (40 CFR Part 312) and set forth by Griffin Fine Living, LLC for the property located on the southeast corner of Margarita Road and Solana Way in the City of Temecula, Riverside County, California (the "subject property"). The Phase I Environmental Site Assessment is designed to provide Griffin Fine Living, LLC with an assessment concerning environmental conditions (limited to those issues identified in the report) as they exist at the subject property.

Property Description

The subject property is located on the southeast corner of Margarita Road and Solana Way within a mixed commercial and residential area of Temecula, California. Please refer to the table below for further description of the subject property:

Subject Property Data	
Address:	Southeast Corner of Margarita Road and Solana Way, Temecula, California
Potential Historical Address:	29615 Solana Way (2005-2010)
Property Use:	Vacant land
Land Acreage (Ac):	3.98 Ac per Assessor
Number of Buildings:	None
Assessor's Parcel Numbers (APNs):	921-330-025 (Parcel A); 921-330-026 (Parcel B); 921-330-052 (Parcel C); and 921-330-053 (Parcel D)
Current Tenants:	Unoccupied
Site Assessment Performed By:	Jared Eudell of Partner
Site Assessment Conducted On:	June 3, 2019

The subject property is currently 3.98 acres of undeveloped grassland with scant trees and a riparian corridor that traverses westerly from the southeastern portion to the northwestern portion. Additional rivulets feed the ephemeral stream. Electrical transmission lines and associated trenching parallel Solana Way along the northern perimeter. A cellular tower with pole-mounted equipment was observed near the northwestern corner. A brush maintenance program is reportedly in effect as ordered by the Temecula Fire Department and some of the vegetative debris appears to be left on-site near the northeastern corner. No structures are developed on the subject property.

According to available historical sources, the subject property was undeveloped as early as 1901; agricultural and/or fallow agricultural land from at least 1938 until at least 1967; and vacant land from at least 1978 until present day. In addition, the subject property appears to have been traversed by an intermittent creek or stream since at least 1938.

The immediately surrounding properties consist of apartments to the north across Solana Way, south across Via La Vida, and west across Margarita Road; vacant land to the east; and a medical building to the northwest across the intersection of Margarita Road and Solana Way.

According to preliminary data from a geotechnical investigation conducted by Partner on the subject property (2019, unpublished as of the date of this report) and a subsurface investigation conducted on a nearby property (26680 Ynez Road, Case #UT4135), the depth of groundwater in the vicinity of the subject property is inferred to be approximately 20 feet below ground surface (bgs); however, a zone of perched groundwater was observed near the center of the subject property at a depth of approximately one to eight feet bgs. Based on topographic map interpretation, the direction of groundwater in the vicinity of the subject property is inferred to flow toward the west.

Findings

A *recognized environmental condition (REC)* refers to the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: due to release to the environment; under conditions indicative of a release to the environment; or under conditions that pose a material threat of a future release to the environment. The following was identified during the course of this assessment:

- Partner did not identify any RECs during the course of this assessment.

A *controlled recognized environmental condition (CREC)* refers to a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls. The following was identified during the course of this assessment:

- Partner did not identify any CRECs during the course of this assessment.

A *historical recognized environmental condition (HREC)* refers to a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. The following was identified during the course of this assessment:

- Partner did not identify any HRECs during the course of this assessment.

An *environmental issue* refers to environmental concerns identified by Partner, which do not qualify as RECs; however, warrant further discussion. The following was identified during the course of this assessment:

- The stream traversing the subject property appears to be a designated wetland area, based on information obtained from the United States Fish and Wildlife Service. Specifically, this watercourse is described as an intermittent riverine seasonally-flooded streambed. A comprehensive wetlands survey would be required in order to formally determine actual wetlands on the subject property which may extend to the associated riparian corridor. According to Mr.

Sean Illes, Project Manager of Forward Planning for Griffin Living, and representative of the developer, prospective purchaser and User of this report, all environmental clearances pertinent to the proposed development, including the disturbance of wetlands, have been obtained from applicable agencies including the US Army Corps of Engineers. Copies of these clearances have not been reviewed by Partner.

- The subject property was historically used for agricultural purposes from at least 1938 until at least 1967. There is a potential that agricultural related chemicals such as pesticides, herbicides, and fertilizers, may have been used on-site. Storage or mixing of these chemicals on the subject property historically is unlikely as no agricultural maintenance buildings were evident on-site based on our review of available documentation. During site development activities, near surface soils (where residual agricultural chemical concentrations would have most likely been present, if at all) are generally mixed with fill material or disturbed during grading. Also, engineered fill material is commonly placed over underlying soils as part of the development activities. Furthermore, it is likely that residual agricultural chemicals (if any) would have likely degraded since the site was last utilized for agricultural purposes. These additional variables serve to further reduce the potential for exposure to residual agricultural chemicals (if any). Based on these reasons, Partner concludes that the possible former use of agricultural chemicals is not expected to represent a significant environmental concern at this time.

Conclusions, Opinions and Recommendations

Partner has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 for the property located on the southeast corner of Margarita Road and Solana Way in the City of Temecula, Riverside County, California (the "subject property"). Any exceptions to, or deletions from, this practice are described in Section 1.5.

This assessment has revealed no evidence of RECs in connection with the subject property; however, environmental issues were identified. Based on the conclusions of this assessment, Partner recommends no further investigation of the subject property at this time.

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1.0 INTRODUCTION

Partner Engineering and Science, Inc. (Partner) has performed a Phase I Environmental Site Assessment (ESA) in general conformance with the scope and limitations of ASTM Standard Practice E1527-13 and the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (AAI) (40 CFR Part 312) for the property located on the southeast corner of Margarita Road and Solana Way in the City of Temecula, Riverside County, California (the "subject property"). Any exceptions to, or deletions from, this scope of work are described in the report.

1.1 Purpose

The purpose of this ESA is to identify existing or potential Recognized Environmental Conditions (as defined by ASTM Standard E1527-13) affecting the subject property that: 1) constitute or result in a material violation or a potential material violation of any applicable environmental law; 2) impose any material constraints on the operation of the subject property or require a material change in the use thereof; 3) require clean-up, remedial action or other response with respect to Hazardous Substances or Petroleum Products on or affecting the subject property under any applicable environmental law; 4) may affect the value of the subject property; and 5) may require specific actions to be performed with regard to such conditions and circumstances. The information contained in the ESA Report will be used by Client to: 1) evaluate its legal and financial liabilities for transactions related to foreclosure, purchase, sale, loan origination, loan workout or seller financing; 2) evaluate the subject property's overall development potential, the associated market value and the impact of applicable laws that restrict financial and other types of assistance for the future development of the subject property; and/or 3) determine whether specific actions are required to be performed prior to the foreclosure, purchase, sale, loan origination, loan workout or seller financing of the subject property.

This ESA was performed to permit the *User* to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601) liability (hereinafter, the "*landowner liability protections*," or "*LLPs*"). ASTM Standard E1527-13 constitutes "*all appropriate inquiry* into the previous ownership and uses of the *property* consistent with good commercial or customary practice" as defined at 42 U.S.C. §9601(35)(B).

1.2 Scope of Work

The scope of work for this ESA is in accordance with the requirements of ASTM Standard E1527-13. This assessment included: 1) a property and adjacent site reconnaissance; 2) interviews with key personnel; 3) a review of historical sources; 4) a review of regulatory agency records; and 5) a review of a regulatory database report provided by a third-party vendor. Partner contacted local agencies, such as environmental health departments, fire departments and building departments in order to determine any current and/or former hazardous substances usage, storage and/or releases of hazardous substances on the subject property. Additionally, Partner researched information on the presence of activity and use limitations (AULs) at these agencies. As defined by ASTM E1527-13, AULs are the legal or physical restrictions or limitations on the use of, or access to, a site or facility: 1) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or groundwater on the subject

property; or 2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or engineering controls (IC/ECs), are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products in the soil or groundwater on the property.

If requested by Client, this report may also include the identification, discussion of, and/or limited sampling of asbestos-containing materials (ACMs), lead-based paint (LBP), mold, and/or radon.

1.3 Limitations

Partner warrants that the findings and conclusions contained herein were accomplished in accordance with the methodologies set forth in the Scope of Work. These methodologies are described as representing good commercial and customary practice for conducting an ESA of a property for the purpose of identifying recognized environmental conditions. There is a possibility that even with the proper application of these methodologies there may exist on the subject property conditions that could not be identified within the scope of the assessment or which were not reasonably identifiable from the available information. Partner believes that the information obtained from the record review and the interviews concerning the subject property is reliable. However, Partner cannot and does not warrant or guarantee that the information provided by these other sources is accurate or complete. The conclusions and findings set forth in this report are strictly limited in time and scope to the date of the evaluations. The conclusions presented in the report are based solely on the services described therein, and not on scientific tasks or procedures beyond the scope of agreed-upon services or the time and budgeting restraints imposed by the Client. No other warranties are implied or expressed.

Some of the information provided in this report is based upon personal interviews, and research of available documents, records, and maps held by the appropriate government and private agencies. This report is subject to the limitations of historical documentation, availability, and accuracy of pertinent records, and the personal recollections of those persons contacted.

This practice does not address requirements of any state or local laws or of any federal laws other than the all appropriate inquiry provisions of the LLPs. Further, this report does not intend to address all of the safety concerns, if any, associated with the subject property.

Environmental concerns, which are beyond the scope of a Phase I ESA as defined by ASTM include the following: ACMs, LBP, radon, and lead in drinking water. These issues may affect environmental risk at the subject property and may warrant discussion and/or assessment; however, are considered non-scope issues. If specifically requested by the Client, these non-scope issues are discussed in Section 6.3.

1.4 User Reliance

Griffin Fine Living, LLC engaged Partner to perform this assessment in accordance with an agreement governing the nature, scope and purpose of the work as well as other matters critical to the engagement. All reports, both verbal and written, are for the sole use and benefit of Griffin Fine Living, LLC. Either verbally or in writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with Partner granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any

course of action against Partner, its officers, employees, vendors, successors or assigns. Any such unauthorized user shall be responsible to protect, indemnify and hold Partner, Client and their respective officers, employees, vendors, successors and assigns harmless from any and all claims, damages, losses, liabilities, expenses (including reasonable attorneys' fees) and costs attributable to such Use. Unauthorized use of this report shall constitute acceptance of and commitment to these responsibilities, which shall be irrevocable and shall apply regardless of the cause of action or legal theory pled or asserted. Additional legal penalties may apply.

This report has been completed under specific Terms and Conditions relating to scope, relying parties, limitations of liability, indemnification, dispute resolution, and other factors relevant to any reliance on this report. Any parties relying on this report do so having accepted the Terms and Conditions for which this report was completed. A copy of Partner's standard Terms and Conditions can be found at http://www.partneresi.com/terms-and-conditions.php.

1.5 Limiting Conditions

The findings and conclusions contain all of the limitations inherent in these methodologies that are referred to in ASTM E1527-13.

Specific limitations and exceptions to this ESA are more specifically set forth below:

- Interviews with past owners, operators and occupants were not reasonably ascertainable and thus constitute a data gap. Based on information obtained from other historical sources (as discussed in Section 3.0), this data gap is not expected to alter the findings of this assessment.
- Information relative to deed restrictions and environmental liens, a title search, and completion of a pre-survey questionnaire from the Report User was not provided at the time of the assessment. Based on information obtained from other historical sources (as discussed in Section 3.0), this data gap is not expected to alter the findings of this assessment.
- Partner was unable to determine the property use at 5-year intervals, which constitutes a data gap. Except for property tax files and recorded land title records, which were not considered to be sufficiently useful, Partner reviewed all standard historical sources and conducted appropriate interviews.
- Partner did not submit a request for records to the Riverside County Department of Environmental Health (RCDEH). The RCDEH stated that they cannot search for records without a physical address. Based on the historic and current use of the subject property (agricultural and vacant land) and the lack of identified concerns in the regulatory database, this limitation is not expected to alter the overall findings of this assessment.

The Client has requested the report despite the above-listed limitations.

2.0 SITE DESCRIPTION

2.1 Site Location and Legal Description

The subject property is located on the southeast corner of Margarita Road and Solana Way in Temecula, California. According to the Riverside County Assessor, the subject property is identified by Assessor Parcel Numbers (APNs) 921-330-025 (Parcel A); 921-330-026 (Parcel B); 921-330-052 (Parcel C); and 921-330-053 (Parcel D), and ownership is currently vested in Ali Pourdastan.

Please refer to Figure 1: Site Location Map, Figure 2: Site Plan, Figure 3: Topographic Map, and Appendix A: Site Photographs for the location and site characteristics of the subject property.

2.2 Current Property Use

The subject property is currently 3.98 acres of undeveloped grassland with scant trees and a riparian corridor that traverses westerly from the southeastern portion to the northwestern portion. Additional rivulets feed the ephemeral stream. Electrical transmission lines and associated trenching parallel Solana Way along the northern perimeter. A cellular tower with pole-mounted equipment was observed near the northwestern corner. A brush maintenance program is reportedly in effect as ordered by the Temecula Fire Department and some of the vegetative debris appears to be left on-site near the northeastern corner. No structures are developed on the subject property.

Parcels A, C, and D are designated "PO" for Professional Office development by the City of Temecula while Parcel B is designated "OS-C" for Open Space Conservation.

The subject property is not identified in the regulatory database report, as further discussed in Section 4.2.

2.3 Current Use of Adjacent Properties

The subject property is located within a mixed commercial and residential area of Temecula, California. During the vicinity reconnaissance, Partner observed the following land use on properties in the immediate vicinity of the subject property:

Immediately Surrounding Properties	
Northwest:	Intersection of Margarita Road and Solana Way followed by Abbott Vascular, a medical facility (41888 Motor Car Parkway)
North:	Solana Way followed by apartments (41754 Margarita Road)
East:	Vacant land (29648 Solana Way)
South:	Via La Vida followed by apartments (41770 Margarita Road)
West:	Margarita Road followed by apartments (29605 Solana Way)

The adjacent property to the northwest, identified as Abbot Cardiovascular Systems, Inc. at 41888 Motor Car Parkway, is identified as a California Environmental Reporting System (CERS), CERS Hazardous Waste (HAZ WASTE), Resource Conservation Recovery Act (RCRA)-Small Quantity Generator (SQG), and Facility and Manifest Data (HAZNET) site in the regulatory database report, as further discussed in Section 4.2.

2.4 Physical Setting Sources

2.4.1 Topography

The United States Geological Survey (USGS) *Murrieta Name, California* Quadrangle 7.5-minute series topographic map, dated 2018, was reviewed for this ESA. According to the contour lines on the topographic map, the subject property is located between approximately 1,070 to 1,090 feet above mean sea level (MSL). The contour lines in the area of the subject property indicate the area is sloping gently toward the west. Improvements, with the exception of roadways and waterways, are not depicted on the 2018 map.

A copy of the 2018 topographic map is included as Figure 3 of this report.

2.4.2 Hydrology

According to preliminary data from a geotechnical investigation conducted by Partner on the subject property (2019, unpublished as of this report) and a subsurface investigation conducted on a nearby property (26680 Ynez Road, Case #UT4135), the depth of groundwater in the vicinity of the subject property is inferred to be approximately 20 feet below ground surface (bgs); however, a zone of perched groundwater was observed near the center of the subject property at a depth of approximately one to eight feet bgs. According to topographic map interpretation, the direction of groundwater in the vicinity of the subject property is inferred to flow toward the west.

The unnamed stream that traverses the center of the subject property flows westerly toward its confluence with another unnamed stream, and ultimately into the Murrieta Creek which is located approximately one-mile down-stream (or approximately 4,500 feet to the southwest).

According to available information, a public water system operated by the Eastern Municipal Water District (EMWD) serves the subject property vicinity. According to the 2017 Water Quality Report, the sources of public water include including surface water from the Colorado River and the State Water Project, as well as local groundwater. No irrigation wells or private drinking water wells were observed at the subject property.

2.4.3 Geology/Soils

The subject property is situated within the Peninsular Ranges physiographic province of the State of California. This province is characterized by a series of ranges that are separated by longitudinal valleys, trending northwest to southeast, subparallel to faults branching from the San Andreas Fault. The trend of topography is similar to the Coast Ranges, but the geology is more like the Sierra Nevada, with granitic rock intruding the older metamorphic rocks. The Peninsular Ranges extend into Lower California and are bound on the east by the Colorado Desert. The Los Angeles Basin and the island group (Santa Catalina, Santa Barbara, and the distinctly terraced San Clemente and San Nicolas islands), together with the surrounding continental shelf (cut by deep submarine fault troughs) are included in this province.

The uppermost geologic formation underlying the soils at the subject property is the Quaternary alluvium and marine deposits of the Pliocene to Holocene age. This formation consists of Alluvium, lake, playa, and terrace deposits; unconsolidated and semi-consolidated. Mostly nonmarine, but includes marine deposits near the coast.

Based on information obtained from the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey online database, the portion of the subject property generally located to the south of the stream is mapped as Ramona and Buren loams, 5 to 25 percent slopes, severely eroded, and the subject property is otherwise as Hanford coarse sandy loam, 2 to 8 percent slopes.

The Ramona series is a member of the fine-loamy, mixed, thermic family of Typic Haploxeralfs and consists of well-drained with slow to rapid runoff and moderately slow permeability. The Ramona soils are nearly level to moderately steep and are found on terraces and fans at elevations of 250 to 3,500 feet. They formed in alluvium derived mostly from granitic and related rock sources. Typically, Ramona soils have brown, slightly and medium acid, sandy loam and fine sandy loam A horizons, reddish brown and yellowish red, slightly acid, sandy clay loam B2t horizons, and strong brown, neutral, fine sandy loam C horizons. The A and B horizons have more than 15 percent combined coarse and very coarse sand and 5 to 35 percent fine rock fragments of 2 to 5mm size. Rock fragments larger than 5mm are less than 5 percent. The C horizons are variable as to coarse sand, fine gravel, and rock fragments larger than 5mm but in general are more coarse than the A and B horizons.

The Buren series consists of well drained slow to moderately slowly permeable soils. These soils are on gently to strongly sloping alluvial fans and terraces. They formed in alluvium derived mostly from basic igneous rocks and partly from other crystalline rocks. The Buren series have yellowish brown and brown, moderately alkaline, fine sandy loam A horizons. The A horizon is grayish brown, pale brown or yellowish brown with chroma of 2 through 4 and value of 5 or 6. It contains less than 1 percent organic matter. It is fine sandy loam or loam. This horizon is slightly hard or hard, and the immediate surface may or may not be both massive and hard. It ranges from slightly acid to moderately alkaline and is not calcareous.

The Hanford series consists of very deep, well drained soils that formed in moderately coarse textured alluvium dominantly from granite. Hanford soils are on stream bottoms, floodplains and alluvial fans and have slopes of 0 to 15 percent. Soil between the depths of about 8 to 24 inches usually is dry all of the time from late April or May until November or early December and usually is moist in some or all parts of this section all the rest of the year. The 10 to 40-inch control section averages sandy loam, coarse sandy loam, fine sandy loam or gravelly equivalents of each. The coarse fragments range from 0 to 35 percent. The particle size control section has little or no stratification. Clay content usually averages 6 to 18 percent. Organic matter is less than 1 percent and decreases regularly with increasing depth.

2.4.4 Flood Zone Information

Partner performed a review of the Flood Insurance Rate Map (FIRM), published by the Federal Emergency Management Agency (FEMA). According to Community Panel Number 06065C2720G, dated August 28, 2008, the subject property appears to be located in Zone X (unshaded), an area located outside of the 100-year and 500-year flood plains.

3.0 HISTORICAL INFORMATION

Partner obtained historical use information about the subject property from a variety of sources. A chronological listing of the historical data found is summarized in the table below:

Historical Use Information		
Period/Date	**Source**	**Description/Use**
1901	Topographic Map	Depicted as traversed by a road
1938-1967	Aerial Photographs, Topographic Maps	Agricultural land traversed by an intermittent creek or stream
1978-Present	Aerial Photographs, Topographic Maps, Interviews, On-site Observations	Vacant land traversed by an intermittent creek or stream

The subject property was historically used for agricultural purposes from at least 1938 until at least 1967. There is a potential that agricultural related chemicals such as pesticides, herbicides, and fertilizers, may have been used on-site. Storage or mixing of these chemicals on the subject property historically is unlikely as no agricultural maintenance buildings were evident on-site based on our review of available documentation. During site development activities, near surface soils (where residual agricultural chemical concentrations would have most likely been present, if at all) are generally mixed with fill material or disturbed during grading. Also, engineered fill material is commonly placed over underlying soils as part of the development activities. Furthermore, it is likely that residual agricultural chemicals (if any) would have likely degraded since the site was last utilized for agricultural purposes. These additional variables serve to further reduce the potential for exposure to residual agricultural chemicals (if any). Based on these reasons, Partner concludes that the possible former use of agricultural chemicals is not expected to represent a significant environmental concern at this time.

No additional potential environmental concerns were identified in association with the current or former use of the subject property.

3.1 Aerial Photograph Review

Partner obtained available aerial photographs of the subject property and surrounding area from Environmental Data Resources, Inc. (EDR) on May 29, 2019. The following observations were noted to be visible on the subject property and adjacent properties during the aerial photograph review:

Date:	*1938, 1949, 1953*	*Scale:*	*1"=500'*
Subject Property:	Appears to be fallow agricultural land with numerous waterways traversing		
Northwest:	Appears to be fallow agricultural land		
North:	Appears to be fallow agricultural land		
East:	Appears to be fallow agricultural land with numerous waterways traversing		
South:	Appears to be fallow agricultural land		
West:	Appears to be fallow agricultural land with a waterway traversing		

Date:	*1961*	*Scale:*	*1"=500'*
Subject Property:	Appears to be agricultural land with numerous waterways traversing		
Northwest:	Appears to be agricultural land		
North:	Appears to be agricultural land		

Date:	1961	Scale:	1"=500'
East:	Appears to be agricultural land with numerous waterways traversing		
South:	Appears to be agricultural land		
West:	Appears to be agricultural land with a waterway traversing		

Date:	1967	Scale:	1"=500'
Subject Property:	Appears to be fallow agricultural land with numerous waterways traversing		
Northwest:	Appears to be fallow agricultural land and vacant/graded land with small commercial structures or construction trailers across the intersection of Margarita Road and Solana Way		
North:	Appears to be developed with two commercial structures followed by fallow agricultural land across an unpaved road		
East:	Appears to be fallow agricultural land with numerous waterways traversing		
South:	Appears to be fallow agricultural land		
West:	Appears to be fallow agricultural land with a waterway traversing across an unpaved road		

Date:	1978, 1985	Scale:	1"=500'
Subject Property:	Appears to be vacant land traversed by a waterway		
Northwest:	Appears to be developed with multiple residential structures and a livestock pasture across the intersection of Margarita Road and Solana Way		
North:	No significant changes visible; however, Solana Way or its predecessor has been paved		
East:	Appears to be vacant land with numerous waterways traversing		
South:	Appears to be vacant land		
West:	Appears to be vacant land with a waterway traversing across Margarita Road or its predecessor		

Date:	1989	Scale:	1"=500'
Subject Property:	No significant changes visible; however, the northern and southwestern land appears to have been disturbed		
Northwest:	Appears to be developed with multiple residential structures, a livestock pasture, and artificial ponds or drainage basins across the intersection of Margarita Road and Solana Way		
North:	No significant changes visible		
East:	No significant changes visible		
South:	Appears to be developed with the current apartment complex across Via La Vida		
West:	Appears to be under construction with the current apartment complex across Margarita Road		

Date:	1996	Scale:	1"=500'
Subject Property:	No significant changes visible; however, a suggestion of the current trenching and soil spoils is visible		
Northwest:	Appears to be vacant land across the intersection of Margarita Road and Solana Way		
North:	No significant changes visible		
East:	No significant changes visible		
South:	No significant changes visible		

Date:	1996	Scale:	1"=500'
West:	Appears to be developed with the current apartment complex across Margarita Road		

Date:	2002	Scale:	1"=500'
Subject Property:	No significant changes visible		
Northwest:	No significant changes visible		
North:	Appears to be developed with the current apartment complex across Solana Way		
East:	No significant changes visible		
South:	No significant changes visible		
West:	No significant changes visible		

Date:	2006	Scale:	1"=500'
Subject Property:	No significant changes visible		
Northwest:	Appears to be developed as a parking lot across the intersection of Margarita Road and Solana Way		
North:	No significant changes visible		
East:	No significant changes visible		
South:	No significant changes visible		
West:	No significant changes visible		

Date:	2009, 2012, 2016	Scale:	1"=500'
Subject Property:	No significant changes visible		
Northwest:	Appears to be developed the the current commercial structures across the intersection of Margarita Road and Solana Way		
North:	No significant changes visible		
East:	No significant changes visible		
South:	No significant changes visible		
West:	No significant changes visible		

Copies of the aerial photographs are included in Appendix B.

3.2 Fire Insurance Maps

Partner requested Sanborn Fire insurance maps from EDR. On May 29, 2019, EDR responded that Sanborn map coverage was not available for the subject property.

A copy of the Certified Sanborn Map Report No Coverage documentation is included in Appendix B.

3.3 City Directories

Partner reviewed historical city directories obtained from EDR on May 31, 2019 for past names and businesses that were listed for the subject property and adjacent properties. The city directories were obtained in roughly five-year increments between 1971 and 2014. Although no known addresses are assigned to the subject property, using the adjacent property addresses as bookends, Partner identified the address of 29615 Solana Way, as a potential historical address of the subject property. Mr. Toby Ramph was listed at this address in 2005 and 2010. No other listings were identified for potential subject property addresses.

Only residential and apartment listings were identified at current and possibly historical adjacent property addresses from as early as 1992 to Present.

Based on the city directory review, no environmentally significant listings were identified for the subject property or adjacent properties.

Copies of reviewed city directories are included in Appendix B.

3.4 Historical Topographic Maps

Partner reviewed historical topographic maps obtained from EDR on May 29, 2019. The following observations were noted to be depicted on the subject property and adjacent properties during the topographic map review:

Date:	***1901***
Subject Property:	Depicted as undeveloped land with a road traversing
Northwest:	Depicted as undeveloped land
North:	Depicted as undeveloped land
East:	Depicted as undeveloped land with a road traversing
South:	Depicted as undeveloped land
West:	Depicted as undeveloped land with a road traversing

Date:	***1942, 1943, 1947***
Subject Property:	Depicted as undeveloped land
Northwest:	Depicted as undeveloped land
North:	Depicted as undeveloped land
East:	Depicted as undeveloped land
South:	Depicted as undeveloped land
West:	Depicted as undeveloped land

Date:	***1953***
Subject Property:	Depicted as undeveloped land with an intermittent stream traversing
Northwest:	Depicted as undeveloped land
North:	Depicted as undeveloped land
East:	Depicted as undeveloped land with an intermittent stream traversing
South:	Depicted as undeveloped land
West:	Depicted as undeveloped land with an intermittent stream traversing

Date:	***1973, 1979***
Subject Property:	No significant changes depicted
Northwest:	Depicted as mostly vacant land followed by four small structures across the intersection of Margarita Road and Solana Way
North:	Depicted as developed with three structures followed by vacant land across Solana Way
East:	No significant changes depicted
South:	No significant changes depicted
West:	No significant changes depicted; however, Margarita Road is depicted

Copies of reviewed topographic maps are included in Appendix B.

4.0 REGULATORY RECORDS REVIEW

4.1 Regulatory Agencies

4.1.1 Health Department

The Riverside County Department of Environmental Health (RCDEH) is designated by the California Environmental Protection Agency (Cal EPA) as the Certified Unified Program Agency (CUPA) for the County of Riverside.

Regulatory Agency Data	
Name of Agency:	Riverside County Department of Environmental Health (RCDEH)
Point of Contact:	Records Custodian; DEHRecordsMgmt@rivco.org
Agency Address:	4065 County Circle Drive, Room 104, P.O. Box 7489, Riverside, California 92513
Agency Phone Number:	(951) 358-5055
Date of Contact:	Not Applicable (N/A)
Method of Communication:	N/A
Summary of Communication:	Partner did not submit a request for records to the RCDEH. The RCDEH stated that they cannot search for records without a physical address. Based on the historic and current use of the subject property (agricultural and vacant land) and the lack of identified concerns in the regulatory database, this limitation is not expected to alter the overall findings of this assessment.

4.1.2 Fire Department

The Riverside County Fire Department provides fire prevention and response services. No inspections or oversight of hazardous substances is performed.

The RCDEH is the CUPA for Riverside County and is responsible for regulating facilities that: handle or store hazardous materials; are part of the California Accidental Release Prevention Program; generate or treat hazardous wastes; generate or treat medical waste; store at least 1,320 gallons of aboveground petroleum; or own or operate underground storage tanks (USTs). Please see Section 4.1.1 for a discussion of relevant regulatory documentation obtained for the subject property.

4.1.3 Air Pollution Control Agency

Regulatory Agency Data	
Name of Agency:	South Coast Air Quality Management District (SCAQMD) Facility INformation Detail (FIND) Online Database Query
Agency Website:	http://www3.aqmd.gov/webappl/fim/prog/search.aspx
Agency Address:	21865 Copley Drive, Diamond Bar, California 91765
Agency Phone Number:	(909) 396-2000
Date of Contact:	May 31, 2019
Method of Communication:	Online
Summary of Communication:	No Permits to Operate (PTO), Notices of Violation (NOV), or Notices to Comply (NTC) or the presence of AULs, dry cleaning machines, or USTs were on file for the subject property with the SCAQMD.

4.1.4 Regional Water Quality Agency

Regulatory Agency Data	
Name of Agency:	San Diego Regional Water Quality Control Board (RWQCB) GeoTracker Data Management System
Agency Website:	http://geotracker.waterboards.ca.gov/
Agency Address:	2375 Northside Drive, Suite 100, San Diego, California 92108
Agency Phone Number:	(619) 516-1990
Date of Contact:	May 30, 2019
Method of Communication:	Online
Summary of Communication:	No records regarding hazardous substance use, storage or releases, or the presence of USTs and AULs on the subject property were on file on the GeoTracker online database.

4.1.5 Department of Toxic Substances Control

Regulatory Agency Data	
Name of Agency:	Department of Toxic Substances Control (DTSC) EnviroStor Data Management System and Hazardous Waste Tracking System (HWTS) Database
Agency Websites:	http://www.envirostor.dtsc.ca.gov/public/ http://hwts.dtsc.ca.gov/report_search.cfm?id=5
Agency Address:	5796 Corporate Avenue, Cypress, California 90630
Agency Phone Number:	(714) 484-5336 / (714) 484-5337
Date of Contact:	May 30, 2019
Method of Communication:	Online
Summary of Communication:	No records regarding hazardous substance use, storage or releases, or the presence of USTs and AULs on the subject property were on file on the EnviroStor and HWTS online databases.

4.1.6 Building Department

Regulatory Agency Data	
Name of Agency:	City of Temecula Community Development (TCD), Building and Safety Division (BSD)
Point of Contact:	Office of the City Clerk
Agency Address:	41000 Main Street, Temecula, California 92590
Agency Phone Number:	(951) 694-6444
Date of Contact:	May 31, 2019
Method of Communication:	Online and Email
Summary of Communication:	No records were on file with the BSD.

4.1.7 Planning Department

Regulatory Agency Data	
Name of Agency:	TCD, Planning Department (TPD)
Point of Contact:	Online Interactive GIS Tool
Agency Address:	41000 Main Street, Temecula, California 92590
Agency Phone Number:	(951) 694-6444

Regulatory Agency Data	
Date of Contact:	June 12, 2019
Method of Communication:	Online
Summary of Communication:	According to records reviewed, Parcels A, C, and D are zoned "PO" for Professional Office development by the City of Temecula while Parcel B is zoned "OS-C" for Open Space Conservation.

4.1.8 Oil & Gas Exploration

Regulatory Agency Data	
Name of Agency:	California Division of Oil, Gas and Geothermal Resources (DOGGR) DOGGR Well Finder Mapping Application
Agency Website:	http://maps.conservation.ca.gov/doggr/index.html
Agency Address:	801 K Street, MS 24-01, Sacramento, California 95814
Agency Phone Number:	(916) 322-1080
Date of Contact:	May 30, 2019
Method of Communication:	Online
Summary of Communication:	According to DOGGR, no oil or gas wells are located on or adjacent to the subject property.

4.1.9 Assessor's Office

Regulatory Agency Data	
Name of Agency:	Riverside County Assessor (Assessor)
Point of Contact:	Switchboard Operator
Agency Address:	2720 Gateway Drive, Riverside, California 92507
Agency Phone Number:	(951) 955-6200
Date of Contact:	May 30, 2019
Method of Communication:	Online and Telephone
Summary of Communication:	According to records reviewed, the 3.98-acre subject property is identified by APNs 921-330-025 (Parcel A); 921-330-026 (Parcel B); 921-330-052 (Parcel C); and 921-330-053 (Parcel D), and ownership is currently vested in Ali Pourdastan.

Copies of pertinent documents obtained from the above-referenced regulatory agencies (if available) are included in Appendix B of this report.

4.2 Mapped Database Records Search

Information from standard federal, state, county, and city environmental record sources was provided by EDR. Data from governmental agency lists are updated and integrated into one database, which is updated as these data are released. The information contained in this report was compiled from publicly available sources and the locations of the sites are plotted utilizing a geographic information system, which geocodes the site addresses. The accuracy of the geocoded locations is approximately +/-300 feet.

Using the ASTM definition of migration, Partner considers the migration of hazardous substances or petroleum products in any form onto the subject property during the evaluation of each site listed on the radius report, which includes solid, liquid, and vapor.

4.2.1 Regulatory Database Summary

Radius Report Data				
Database	**Search Radius (mile)**	**Subject Property**	**Adjacent Properties**	**Sites of Concern**
Federal NPL or Delisted NPL Site	1.00	N	N	N
Federal CERCLIS Site	0.50	N	N	N
Federal CERCLIS-NFRAP Site	0.50	N	N	N
Federal RCRA CORRACTS Facility	1.00	N	N	N
Federal RCRA TSDF Facility	0.50	N	N	N
Federal RCRA Generators Site (LQG, SQG, CESQG)	0.25	N	**Y**	N
Federal IC/EC Registries	0.50	N	N	N
Federal ERNS Site	Subject Property	N	--	--
State/Tribal Equivalent NPL	1.00	N	N	N
State/Tribal Equivalent CERCLIS	1.00	N	N	N
State/Tribal Landfill/Solid Waste Disposal Site	0.50	N	N	N
State/Tribal Leaking Storage Tank Site (LUST)	0.50	N	N	N
State/Tribal Registered Storage Tanks (UST/AST)	0.25	N	N	N
State/Tribal Voluntary Cleanup Sites (VCP)	0.50	N	N	N
State/Tribal Spills	0.50	N	N	N
Federal Brownfield Sites	0.50	N	N	N
State Brownfield Sites	0.50	N	N	N
CERS, CERS HAZ WASTE, HAZNET	Varies	N	**Y**	N
EDR MGP	1.00	N	N	N
EDR US Hist Auto Station	0.125	N	N	N
EDR US Hist Cleaner	0.125	N	N	N

4.2.2 Subject Property Listings

The subject property is not identified in the regulatory database report. .

4.2.3 Adjacent Property Listings

The property, identified as Abbot Cardiovascular Systems, Inc. at 41888 Motor Car Parkway, is identified as a CERS, CERS HAZ WASTE, RCRA-SQG, and HAZNET site in the regulatory database report, as discussed below. This site is located approximately 700 feet to the northwest across the intersection of Margarita Road and Solana Way and situated hydraulically down-gradient.

- This site is listed in numerous databases for the use and storage of hazardous substances and the generation of small quantities of hazardous wastes from 2006 to Present. These databases provide hazardous substance permit and inspection information and do not necessarily indicate a release. These listings reflect regular medical practice operations, which results in the generation of hazardous waste in the form of biomedical "red bag" items, medical sharps, and waste pharmaceuticals. Records also indicate the generation of: waste potentially containing dioxins, ignitable waste, spent nonhalogenated (hydrocarbon) solvents, and other inorganic solid waste. No indications of a potential release were reported and no violations were noted on the RCRA database. Based on the regulatory oversight of current operations, lack of a documented release

or violation, and inferred direction of groundwater flow, this site is not expected to represent a significant environmental concern at this time.

Based on the findings, vapor migration is not expected to represent a significant environmental concern at this time.

4.2.4 Sites of Concern Listings

No sites of concern are identified in the regulatory database report.

4.2.5 Orphan Listings

Four unmapped "orphan" listings are identified in the regulatory database. Based on the names and other information provided in the database report, these orphan listings do not appear to be associated with the subject property or immediately surrounding properties. Therefore, based on their location and or regulatory status, these orphan sites are not expected to represent significant environmental concerns for the subject property.

A copy of the regulatory database report is included in Appendix C.

5.0 USER PROVIDED INFORMATION AND INTERVIEWS

In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the *Brownfields Amendments*), the *User* must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. The *User* should provide the following information to the *environmental professional*. Failure to provide this information could result in a determination that *all appropriate inquiries* is not complete. The *User* is asked to provide information or knowledge of the following:

- Review Title and Judicial Records for Environmental Liens and AULs
- Specialized Knowledge or Experience of the User
- Actual Knowledge of the User
- Reason for Significantly Lower Purchase Price
- Commonly Known or *Reasonably Ascertainable* information
- Degree of Obviousness
- Reason for Preparation of this Phase I ESA

Fulfillment of these user responsibilities is key to qualification for the identified defenses to CERCLA liability. Partner requested our Client to provide information to satisfy User Responsibilities as identified in Section 6 of the ASTM guidance.

Pursuant to ASTM E1527-13, Partner requested the following site information from Griffin Fine Living, LLC (User of this report).

User Responsibilities				
Item	**Provided By User**	**Not Provided By User**	**Discussed Below**	**Does Not Apply**
Environmental Pre-Survey Questionnaire		**X**		
Title Records, Environmental Liens, and AULs			**X**	
Specialized Knowledge			**X**	
Actual Knowledge			**X**	
Valuation Reduction for Environmental Issues			**X**	
Identification of Key Site Manager	**Section 5.1.3**			
Reason for Performing Phase I ESA	**Section 1.1**			
Prior Environmental Reports		**X**		
Other				**X**

5.1 Interviews

5.1.1 Interview with Owner

Mr. Ali Pourdastan acquired the subject property from Mr. Martin Terzian in 2013. Mr. Pourdastan is not aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum

products in, on, or from the subject property; any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the subject property; or any notices from a governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

According to Mr. Pourdastan, the subject property has never been developed and there are no USTs, ASTs, clarifiers, oil/water separators, groundwater monitoring wells, or historical hazardous substance use/storage/generation on the subject property to the best of his knowledge.

5.1.2 Interview with Report User

Mr. Sean Illes, Project Manager of Forward Planning for Griffin Living, and representative of the developer, prospective purchaser and User of this report, stated that the subject property has never been developed and there are no USTs, ASTs, clarifiers, oil/water separators, groundwater monitoring wells, or historical hazardous substance use/storage/generation on the subject property to the best of his knowledge.

Please refer to Section 5.2 below for additional information requested from the Report User.

5.1.3 Interview with Key Site Manager

Mr. Ali Pourdastan is also identified as the key site manager. Information provided by Mr. Pourdastan is included in Section 5.1.1.

5.1.4 Interviews with Past Owners, Operators and Occupants

Interviews with past owners, operators and occupants were not conducted since information regarding the potential for contamination at the subject property was obtained from other sources.

5.1.5 Interview with Others

As the subject property is not an abandoned property as defined in ASTM 1527-13, interview with others were not performed.

5.2 User Provided Information

5.2.1 Title Records, Environmental Liens, and Activity and Use Limitations (AULs)

Partner was not provided with title records or environmental lien and AUL information for review as part of this assessment.

5.2.2 Specialized Knowledge

According to Mr. Illes, all environmental clearances pertinent to the proposed development, including the disturbance of wetlands, have been obtained from applicable agencies including the US Army Corps of Engineers.

The User did not have additional specialized knowledge of environmental conditions associated with the subject property at the time of the assessment.

5.2.3 Actual Knowledge of the User

The User was not aware of environmental liens and/or AULs encumbering the subject property or in connection with the subject property at the time of the assessment.

5.2.4 Valuation Reduction for Environmental Issues

The User was not aware of any reductions in property value due to environmental issues.

5.2.5 Commonly Known or Reasonably Ascertainable Information

The User did not provide information that is commonly known or *reasonably ascertainable* within the local community about the subject property at the time of the assessment.

5.2.6 Previous Reports and Other Provided Documentation

No previous reports or other pertinent documentation was provided to Partner for review during the course of this assessment.

6.0 SITE RECONNAISSANCE

The weather at the time of the site visit was sunny and clear. Refer to Section 1.5 for limitations encountered during the field reconnaissance and Sections 2.1 and 2.2 for subject property operations. The table below provides the site assessment details:

Site Assessment Data	
Site Assessment Performed By:	Jared Eudell
Site Assessment Conducted On:	June 3, 2019

Partner was unaccompanied during the field reconnaissance activities.

Environmental concerns were identified during the on-site reconnaissance related to the presence of sensitive habitat, as further discussed in Sections 6.1.3.

6.1 General Site Characteristics

6.1.1 Solid Waste Disposal

The subject property is vacant land. Evidence of solid waste generation at the subject property was not observed. No evidence of illegal dumping of solid waste was observed during the Partner site reconnaissance.

6.1.2 Sewage Discharge and Disposal

The subject property does not currently utilize sewage disposal due to the vacant state of the property. The City of Temecula services the subject property vicinity. No wastewater treatment facilities or septic systems are observed or reported on the subject property.

6.1.3 Surface Water Drainage

The subject property is vacant land. Storm water flows downhill towered the unnamed ephemeral stream. The stream appears to be a designated wetland area, based on information obtained from the United States Fish and Wildlife Service. Specifically, this watercourse is described as an intermittent riverine seasonally-flooded streambed. A comprehensive wetlands survey would be required in order to formally determine actual wetlands on the subject property which may extend to the associated riparian corridor. According to Mr. Illes, all environmental clearances pertinent to the proposed development, including the disturbance of wetlands, have been obtained from applicable agencies including the US Army Corps of Engineers.

6.1.4 Source of Heating and Cooling

The subject property does not currently utilize heating or cooling systems due to the vacant state of the property.

6.1.5 Wells and Cisterns

No aboveground evidence of wells or cisterns was observed during the site reconnaissance.

6.1.6 Wastewater

The subject property does not currently generate domestic wastewater. No industrial process is currently performed at the subject property.

6.1.7 Septic Systems

No septic systems were observed or reported on the subject property.

6.1.8 Additional Site Observations

No additional general site characteristics were observed during the site reconnaissance.

6.2 Potential Environmental Hazards

6.2.1 Hazardous Substances and Petroleum Products Used or Stored at the Site

No hazardous substances or petroleum products were observed on the subject property during the site reconnaissance.

6.2.2 Aboveground & Underground Hazardous Substance or Petroleum Product Storage Tanks (ASTs/USTs)

No evidence of current or former ASTs or USTs was observed during the site reconnaissance.

6.2.3 Evidence of Releases

No spills, stains or other indications that a surficial release has occurred at the subject property were observed.

6.2.4 Polychlorinated Biphenyls (PCBs)

Older transformers and other electrical equipment could contain PCBs at a level that subjects them to regulation by the U.S. EPA. PCBs in electrical equipment are controlled by United States Environmental Protection Agency regulations 40 CFR, Part 761. Under the regulations, there are three categories into which electrical equipment can be classified: 1) Less than 50 parts per million (ppm) of PCBs – "*Non-PCB;*" 2) 50 ppm-500 ppm – "*PCB-Contaminated;*" and, 3) Greater than 500 ppm – "*PCB-Containing.*" The manufacture, process, or distribution in commerce or use of any PCB in any manner other than in a totally enclosed manner was prohibited after January 1, 1977.

Pole-mounted transformers were observed on the subject property. According to a representative of Southern California Edison (SCE), it is highly unlikely that transformers in their service area contain PCBs at concentration levels requiring special management under the Environmental Protection Agency's rules. In addition, SCE has never specified the purchase of distribution transformers utilizing PCB as the insulating/cooling fluid. SCE distribution transformers utilize mineral oil as the insulating/cooling fluid exclusively. Based on good condition of the equipment, the transformer is not likely to represent a significant environmental concern.

No additional potential PCB-containing equipment (oil-filled transformers or switches, hoists, lifts, hydraulic dock levelers, hydraulic elevators, compactors/balers, etc.) was observed on the subject property during Partner's reconnaissance.

6.2.5 Strong, Pungent or Noxious Odors

No strong, pungent or noxious odors were evident during the site reconnaissance.

6.2.6 Pools of Liquid

No pools of liquid were observed on the subject property during the site reconnaissance.

6.2.7 Drains, Sumps and Clarifiers

No drains, sumps, or clarifiers, other than those associated with storm water removal, were observed on the subject property during the site reconnaissance.

6.2.8 Pits, Ponds and Lagoons

No pits, ponds or lagoons were observed on the subject property.

6.2.9 Stressed Vegetation

No stressed vegetation was observed on the subject property.

6.2.10 Additional Potential Environmental Hazards

No additional environmental hazards, including landfill activities or radiological hazards, were observed.

6.3 Non-ASTM Services

6.3.1 Asbestos-Containing Materials (ACMs)

Due to the undeveloped nature of the subject property, ACMs were not considered within the scope of this assessment.

6.3.2 Lead-Based Paint (LBP)

Due to the undeveloped nature of the subject property, LBP was not considered within the scope of this assessment.

6.3.3 Radon

Radon is a colorless, odorless, naturally occurring, radioactive, inert, gaseous element formed by radioactive decay of radium (Ra) atoms. The US EPA has prepared a map to assist National, State, and local organizations to target their resources and to implement radon-resistant building codes. The map divides the country into three Radon Zones, according to the table below:

EPA Radon Zones		
EPA Zones	**Average Predicted Radon Levels**	**Potential**
Zone 1	Exceed 4.0 pCi/L	Highest
Zone 2	Between 2.0 and 4.0 pCi/L	Moderate
Zone 3	Less than 2.0 pCi/L	Low

It is important to note that the EPA has found homes with elevated levels of radon in all three zones, and the US EPA recommends site-specific testing in order to determine radon levels at a specific location. However, the map does give a valuable indication of the propensity of radon gas accumulation in structures.

Radon sampling was not conducted as part of this assessment. Review of the US EPA Map of Radon Zones places the subject property in Zone 2. Based upon the radon zone classification, radon is not considered to be a significant environmental concern.

6.3.4 Lead in Drinking Water

According to available information, a public water system operated by the EMWD serves the subject property vicinity. According to the 2017 Water Quality Report, the sources of public water include including surface water from the Colorado River and the State Water Project, as well as local groundwater. No irrigation wells or private drinking water wells were observed at the subject property. According to the 2017 Water Quality Report, water supplied to the subject property is in compliance with all State and Federal regulations pertaining to drinking water standards, including lead and copper.

6.3.5 Mold

Molds are microscopic organisms found virtually everywhere, indoors and outdoors. Mold will grow and multiply under the right conditions, needing only sufficient moisture (e.g.in the form of very high humidity, condensation, or water from a leaking pipe, etc.) and organic material (e.g., ceiling tile, drywall, paper, or natural fiber carpet padding).

The subject property is currently undeveloped. As such, no additional action with respect to mold is warranted.

6.4 Adjacent Property Reconnaissance

The adjacent property reconnaissance consisted of observing the adjacent properties from the subject property premises and from public right of ways. No items of environmental concern were identified on the adjacent properties during the site assessment, including hazardous substances, petroleum products, ASTs, USTs, evidence of releases, PCBs, strong or noxious odors, pools of liquids, sumps or clarifiers, pits or lagoons, stressed vegetation, or any other potential environmental hazards.

7.0 FINDINGS AND CONCLUSIONS

Findings

A *recognized environmental condition (REC)* refers to the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: due to release to the environment; under conditions indicative of a release to the environment; or under conditions that pose a material threat of a future release to the environment. The following was identified during the course of this assessment:

- Partner did not identify any RECs during the course of this assessment.

A *controlled recognized environmental condition (CREC)* refers to a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls. The following was identified during the course of this assessment:

- Partner did not identify any CRECs during the course of this assessment.

A *historical recognized environmental condition (HREC)* refers to a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. The following was identified during the course of this assessment:

- Partner did not identify any HRECs during the course of this assessment.

An *environmental issue* refers to environmental concerns identified by Partner, which do not qualify as RECs; however, warrant further discussion. The following was identified during the course of this assessment:

- The stream traversing the subject property appears to be a designated wetland area, based on information obtained from the United States Fish and Wildlife Service. Specifically, this watercourse is described as an intermittent riverine seasonally-flooded streambed. A comprehensive wetlands survey would be required in order to formally determine actual wetlands on the subject property which may extend to the associated riparian corridor. According to Mr. Sean Illes, Project Manager of Forward Planning for Griffin Living, and representative of the developer, prospective purchaser and User of this report, all environmental clearances pertinent to the proposed development, including the disturbance of wetlands, have been obtained from applicable agencies including the US Army Corps of Engineers. Copies of these clearances have not been reviewed by Partner.
- The subject property was historically used for agricultural purposes from at least 1938 until at least 1967. There is a potential that agricultural related chemicals such as pesticides, herbicides, and fertilizers, may have been used on-site. Storage or mixing of these chemicals on the subject property historically is unlikely as no agricultural maintenance buildings were evident on-site based on our review of available documentation. During site development activities, near surface

soils (where residual agricultural chemical concentrations would have most likely been present, if at all) are generally mixed with fill material or disturbed during grading. Also, engineered fill material is commonly placed over underlying soils as part of the development activities. Furthermore, it is likely that residual agricultural chemicals (if any) would have likely degraded since the site was last utilized for agricultural purposes. These additional variables serve to further reduce the potential for exposure to residual agricultural chemicals (if any). Based on these reasons, Partner concludes that the possible former use of agricultural chemicals is not expected to represent a significant environmental concern at this time.

Conclusions, Opinions and Recommendations

Partner has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 for the property located on the southeast corner of Margarita Road and Solana Way in the City of Temecula, Riverside County, California (the "subject property"). Any exceptions to, or deletions from, this practice are described in Section 1.5.

This assessment has revealed no evidence of RECs in connection with the subject property; however, environmental issues were identified. Based on the conclusions of this assessment, Partner recommends no further investigation of the subject property at this time.

8.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

Partner has performed a Phase I Environmental Site Assessment of the property located on the southeast corner of Margarita Road and Solana Way in the City of Temecula, Riverside County, California in conformance with the scope and limitations of the protocol and the limitations stated earlier in this report. Exceptions to or deletions from this protocol are discussed earlier in this report.

By signing below, Partner declares that, to the best of our professional knowledge and belief, we meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR §312. Partner has the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the subject *property*. Partner has developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared By:

Jared Eudell
Project Scientist

Reviewed By:

Brittney Eugenio
Senior Author

9.0 REFERENCES

Reference Documents

American Society for Testing and Materials, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation: E 1527-13.

City of Temecula, Official Website, accessed via the Internet, May 2019

Environmental Data Resources, Inc. (EDR), Aerial Photo Decade Package, Certified Sanborn Map Report, City Directory Abstract, Historical Topo Map Report, Radius Report, May 2019

Federal Emergency Management Agency, Federal Insurance Administration, National Flood Insurance Program, Flood Insurance Map, accessed via the Internet, May 2019

Google Earth, accessed via the Internet, May 2019

Google Maps, accessed via the Internet, May 2019

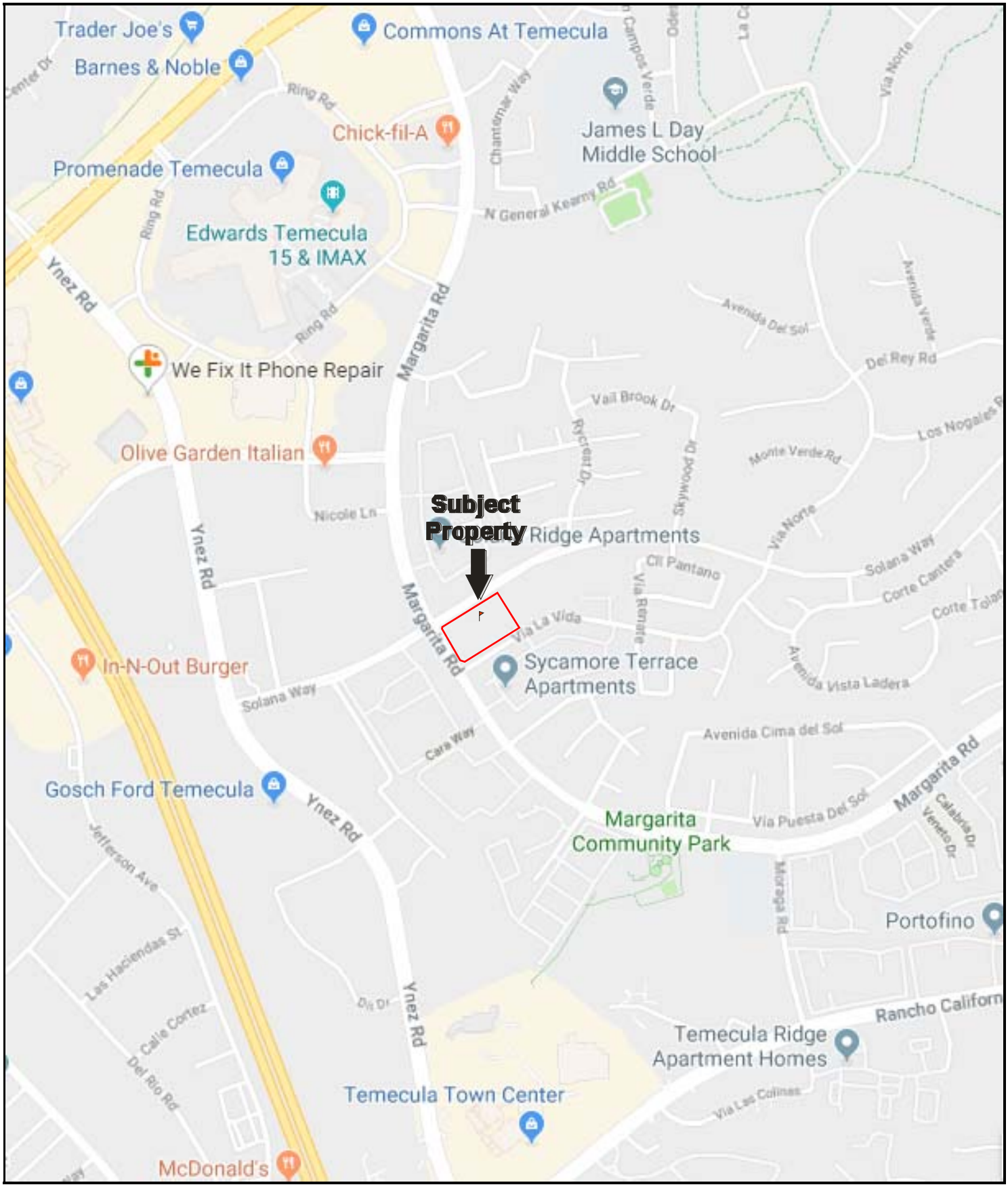
United States Environmental Protection Agency, EPA Map of Radon Zones (Document EPA-402-R-93-071), accessed via the Internet, May 2019

United States Fish and Wildlife Service, National Wetlands Inventory, Wetlands Mapper, accessed via the Internet, May 2019

United States Geological Survey, accessed via the Internet, May 2019

FIGURES

PARTNER



N

Drawing Not To Scale

KEY:
Subject Property

FIGURE 1: SITE LOCATION MAP

Project No. 19-248531.1

PARTNER

N

INFERRED GROUNDWATER FLOW

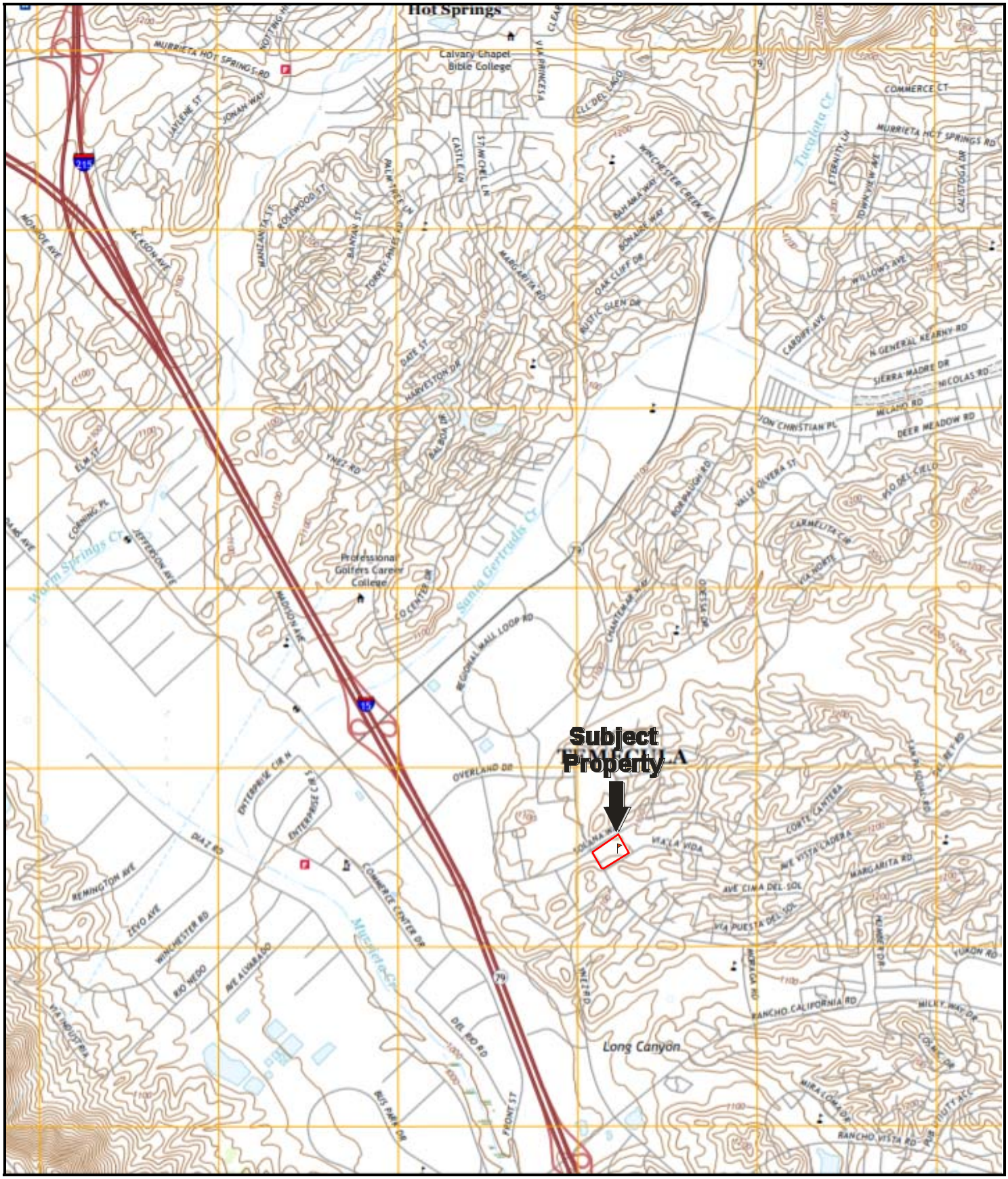
Depth: 1-15 feet bgs

KEY: - Subject Property

FIGURE 2: SITE PLAN

Project No. 19-248531.1

PARTNER



N

USGS 7.5 Minute *Murrieta, California* Quadrangle
Map Year: 2018

KEY:
Subject Property

FIGURE 3: TOPOGRAPHIC MAP
Project No. 19-248531.1

PARTNER

APPENDIX A: SITE PHOTOGRAPHS

1. Subject property northwest corner from the east

2. Subject property from the northwest corner, facing east

3. Subject property northeast corner facing east

4. Vegetative debris pile in northeast corner, from lot maintenance

5. Subject property from northeast corner, facing south

6. Subject property from northeast corner, facing west

7. Subject property northern perimeter with electrical transmission lines

8. Subject property northern perimeter with trenching associated with electrical transmission lines

9. Cellular equipment mounted in line with electrical transmission towers

10. Cellular tower

11. Subject property western perimeter from the northwest corner, facing south

12. Subject property western perimeter from the southwest corner, facing north

13. Subject property from the southwest corner, facing northeast

14. Subject property from the southern perimeter, facing west

15. Subject property from the southeastern corner, facing northwest (stake indicates approximate property line)

16. Subject property from the southeastern corner, facing north (stake indicates approximate property line)

17. View of on-site dry streambed

18. View of apparent oxbow or erosion caused by swift floodwater

19. Northwestern adjacent medical building (41888 Motor Car Parkway)

20. Northern adjacent apartments (41754 Margarita Road)

21. Eastern adjacent vacant land (29648 Solana Way) from the northwest

22. Eastern adjacent vacant land (29648 Solana Way) from the southwest

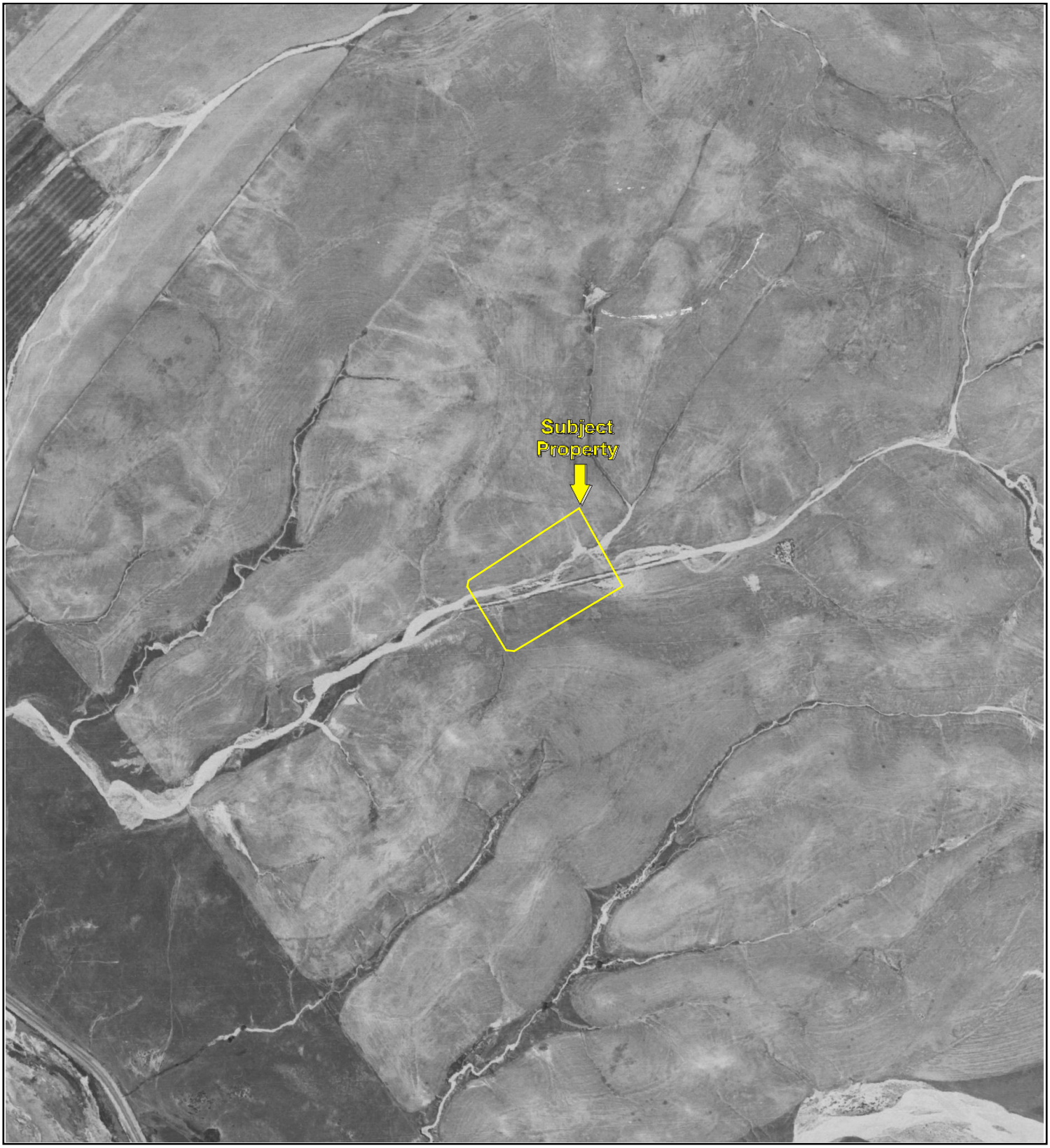
23. Southern adjacent apartments (41770 Margarita Road)

24. Western adjacent apartments (29605 Solana Way)

APPENDIX B: HISTORICAL/REGULATORY DOCUMENTATION

PARTNER

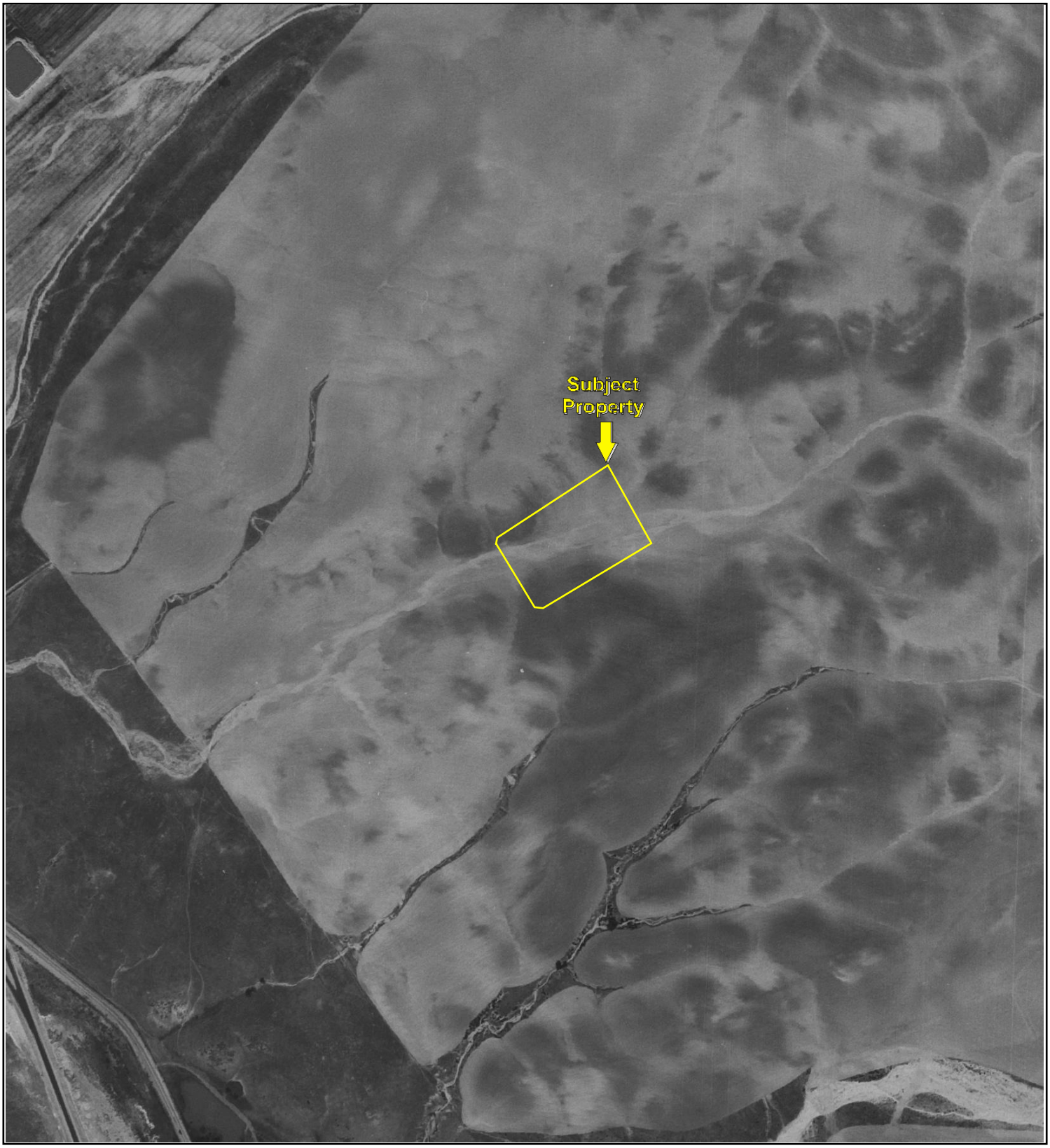
Aerial Photograph Year: 1938



500 1000 2000

N

Key: Subject Property

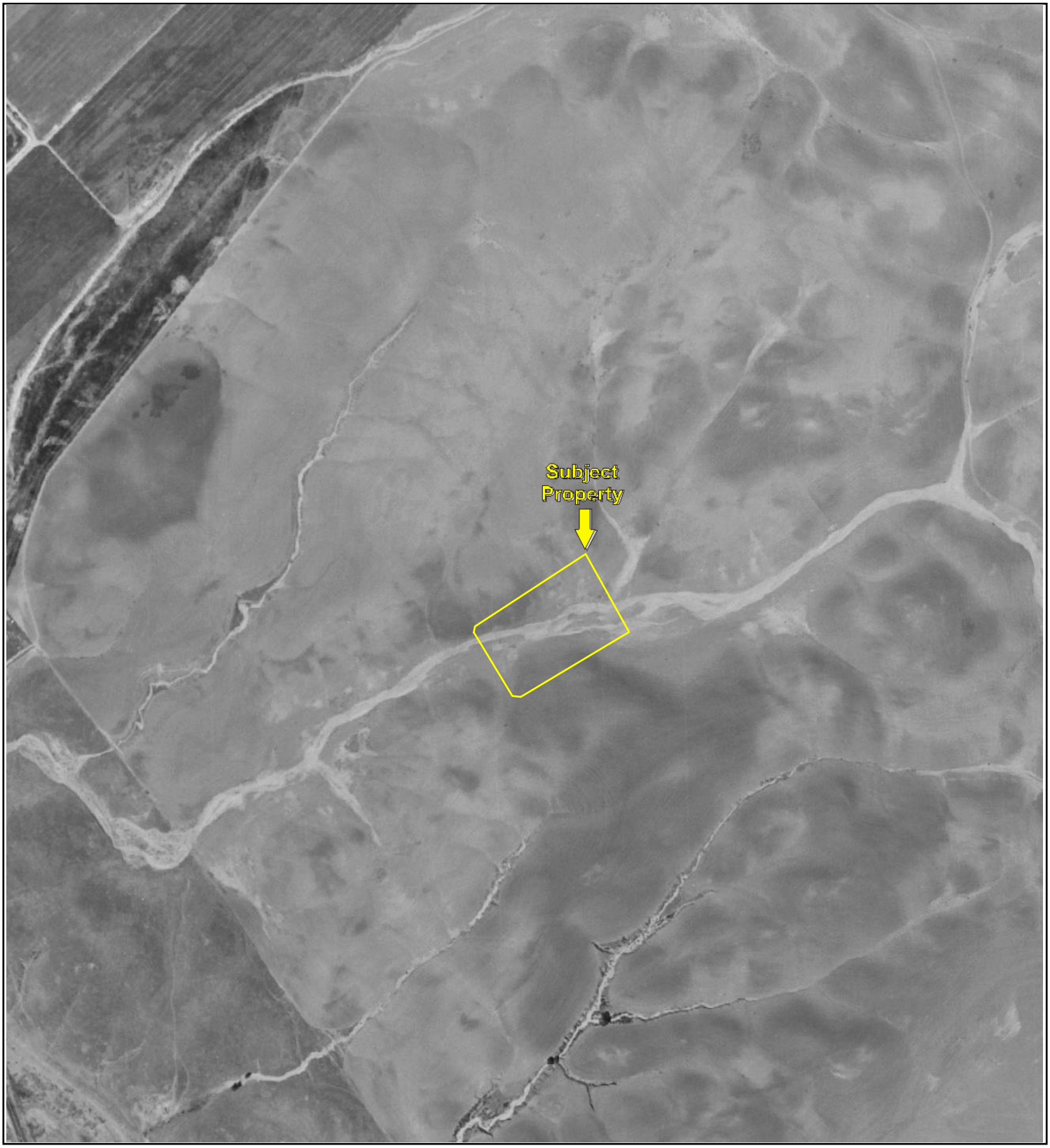


500 1000 2000

N

Key: Subject Property

Aerial Photograph Year: 1953



500 1000 2000

N

Key: Subject Property

500 1000 2000

N

Key: Subject Property

Aerial Photograph Year: 1967

500 1000 2000

N

Key: Subject Property

Aerial Photograph Year: 1978

500 1000 2000

N

Key: Subject Property

Aerial Photograph Year: 1985

500 1000 2000

N

Key: Subject Property

Aerial Photograph Year: 1989

500 1000 2000

N

Key: Subject Property

Aerial Photograph Year: 1996

500 1000 2000

N

Key: Subject Property

Aerial Photograph Year: 2002

500 1000 2000

N

Key: Subject Property

Aerial Photograph Year: 2006

500 1000 2000

N

Key: Subject Property

Aerial Photograph Year: 2009

500 1000 2000

N

Key: Subject Property

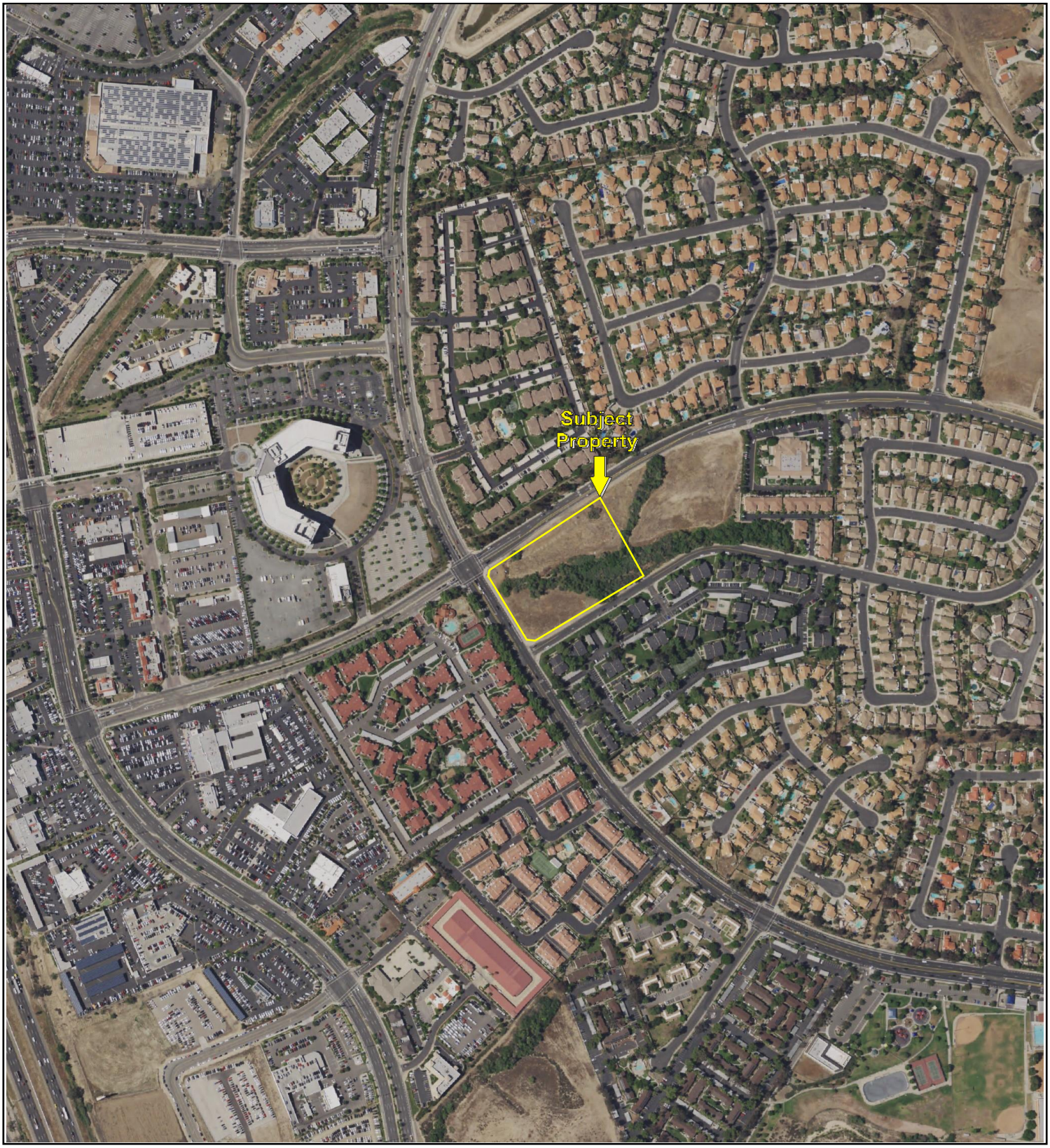
Aerial Photograph Year: 2012

500 1000 2000

N

Key: Subject Property

Aerial Photograph Year: 2016



500 1000 2000

N

Key: Subject Property

Certified Sanborn® Map Report

05/29/19

Site Name:	Client Name:
Temecula ALMC	Partner Engineering and Science, Inc.
SE Corner of Margarita Road a	2154 Torrance Blvd, Suite 200
TEMECULA, CA 92591	Torrance, CA 90501-0000
EDR Inquiry # 5666141.3	Contact: Alex Flores

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Partner Engineering and Science, 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.

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Certified Sanborn Results:

Certification # 6F6F-4864-B06B

PO # 19-248531.1

Project 19-248531.1

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 #: 6F6F-4864-B06B

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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Temecula ALMC
SE Corner of Margarita Road and Solana Way
TEMECULA, CA 92591

Inquiry Number: 5666141.5
May 31, 2019

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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SECTION

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

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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Data by infoUSA®

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2014	☑	☐	EDR Digital Archive
2010	☑	☐	EDR Digital Archive
2005	☑	☐	EDR Digital Archive
2000	☑	☐	EDR Digital Archive
1995	☑	☐	EDR Digital Archive
1992	☑	☐	EDR Digital Archive
1985	☑	☐	Haines Criss-Cross Directory
1981	☑	☐	Haines Criss-Cross Directory
1975	☐	☐	Haines Criss-Cross Directory
1971	☐	☐	Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

SE Corner of Margarita Road and Solana Way
TEMECULA, CA 92591

Year	CD Image	Source	
MARGARITA RD			
2014	pg A2	EDR Digital Archive	
2010	pg A14	EDR Digital Archive	
2005	pg A25	EDR Digital Archive	
2000	pg A36	EDR Digital Archive	
1995	pg A44	EDR Digital Archive	
1992	pg A51	EDR Digital Archive	
1985	pg A55	Haines Criss-Cross Directory	
1981	pg A56	Haines Criss-Cross Directory	
1975	-	Haines Criss-Cross Directory	Street not listed in Source
1971	-	Haines Criss-Cross Directory	Street not listed in Source
SOLANA WAY			
2014	pg A8	EDR Digital Archive	
2010	pg A19	EDR Digital Archive	
2005	pg A30	EDR Digital Archive	
2000	pg A40	EDR Digital Archive	
1995	pg A47	EDR Digital Archive	
1992	pg A53	EDR Digital Archive	
1985	-	Haines Criss-Cross Directory	Street not listed in Source
1981	-	Haines Criss-Cross Directory	Street not listed in Source
1975	-	Haines Criss-Cross Directory	Street not listed in Source
1971	-	Haines Criss-Cross Directory	Street not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MARGARITA RD 2014

41634	MATT HOHN
41684	ARD, SLUIS
	BERRY, JARED
	FIRMAGE, RUSSELL W
	FOLLIOT, STEVEN
	FRIEGO, GARY J
	JMAC ELECTRONICS
	JOHNSON, DOUG
	KENNEDY, KRISTINE
	LANDESMAN, ROBERT E
	LAWSON, BRITTANY
	LOWERY, JOEY D
	MARION, DAVID B
	MILLER, KATIE M
	MITWALLI, IMAD S
	MONATO, MYLA
	RICHARDS, MICKEY
41694	ELVUN LLC
	ESTRADA, LUIS A
	HAIGHT, JULIE
	HUGEN, CHRISTOPHER
	MARTHALA, PRAVEEN
	MAY, COURTNEY
	MOSHARI, KIA
	PAYNE, SAMANTHA
	SEBASTIAN, CHERYL L
	SEZOLLARI, ERMAND
	SHINOST, FRANK
	SOK, HENRY
	VILLA, MAYRA
41704	AYALA, HERMILA
	DEBRA GAYLE DESIGNS
	FEARENCE, HYACYNTHIA
	GALVEZ, MARIA D
	HERNANDEZ, DOREEN
	JORGENSEN, VANESSA R
	LAWRENCE, ROBERT G
	LIERMAN-ANDERSON, LISA
	LITTLETON, WHITNEY D
	NARANJO, CUSTODIO N
	OJEDA, JOSE M
	PRADO, CHRISTOPHER
	RAJAPAL, JOHN P
	SATTERWHITE, CHRISTOPHER
	ULLOA, CARLOS
	ZARDER, WHITNEY
41714	ALLYS CREATIONZ
	CAPITAL EXPRESS LLC
	CHAPPELL, JONATHAN
	CONDON, ROBERT

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MARGARITA RD 2014 (Cont'd)

41714 FRANCE, VANESSA
GARCIA, JUSTIN N
JENKINS, AMY
KDCORE LLC
KECK, JASON
MOHR, MICHELE
MUNOZ, AUGIE
ORTIZ, DAVID A
PEREZ, PABLO
SAWYER, MORGAN E
VAZQUEZ, IVONNE
41724 ALFONSO, MIRNA
COOK, TRACY R
DAVIO, RICHARD J
DUCKWITZ, ASHLELY H
EE, KUEN C
FERMA, LIEZEL
FISHER, MICHAEL
GEHL, SHIRLENE
HOHN, MATTHEW F
MUCAHY, EUGENE
MULCAHY, EUGENE
NELSON, KIM
ORTOLANO, JACOB
ROSSELOTT, KALEB
RUSK, JIM
STEWART, BROC
41734 ALVAREZ, JOSE
AUBERT, CRAIG
AXALAN, FLORDELISA
BEATTY, CAROL J
BIAS, STEPHEN
CRESENCIA, SHANNON
GONZALEZ, TANYA
NINOSKY, MATT J
PURELLA, KRISHNA
VANEGAS, JESSIE G
41744 CHAMBERS, MARCELLUS D
CLARK, ANGELITA
DEBOER, STEPHANIE
DORSI, RON
FERRIS, SAMUEL
KAIYARATH, NOUPHONE
KERN, AMI L
KRENZ, KYLE
LANGMESSER, CHANDA N
MARTIN AND JONES LLC
PAAGO, AMELIA
RUIZ, MONICA E
SCHLANSKY, HELEN M

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MARGARITA RD 2014 (Cont'd)

41744	SHELEY, MARK B
	USA CAPITAL FUNDING CORP
41754	SOLANA RIDGE APARTMENTS
	SOLANA RIDGE LLC
41770	ABELL, RENEE M
	ABOUJAOUDE, ELIZABETH
	ADAM, YVONNE
	ALY, YASER M
	AMBARDEKAR, MANOJ T
	ANDERSON, HEATHER
	ARANGO, VICENTA O
	ASDAD, ASDASD
	BARABAS, SCOTT
	BENJAMIN, SHIVILY
	BIGELOW, SHANNON
	BITTLE, TEDDY W
	BLASKO, JOHN E
	BRINCAT, DANIEL B
	CAMPBELL, CORA
	CARDONA, FREDDY
	CERDA, FERNANDO
	CHARTRAD, BRANDON
	CHAVARRIA, LINO
	CHRISTINE, TAYLOR
	CIMMINO, CHRIS
	CKO CONSULTING LLC
	COHAN, EDWARD R
	CONTE, NICK
	COSTIBULO, GAVINO
	CUNNINGHAM, CHELSEA
	DANBURY, MICHAEL L
	DAVIS, MICHAEL S
	DENNIS, LINDA S
	DEPEW, ANTHONY
	DUFFY, TINA
	DURAN, DANIEL
	EGANA, JENNIFER M
	EMERICK, TOM
	ENGEL, MARISOL C
	FAAFITI, TOFI
	FAALAVELAVE, SAUTIA
	FALAMINIANO, MARCELINA
	FARLEY, SAMUEL
	FEW, DAMIEN
	FIELDS, OLIMPIA
	FIORI, ASHLEY
	FIX IT ALL
	FRIDLEY, THOMAS
	GALINDO, GREGORIO
	GALLAGHER, DANIEL

MARGARITA RD 2014 (Cont'd)

41770 GALLEGOS, MELISSA
GARCIA, CAROLINE
GARCIA, JOHN L
GARFIELD, AUDREY E
GEMARA, MICHELE
GLAUDINI, ALEXANDRA
GORDON, SANDRA J
GOSSETT, STEPHEN R
GOVEA, JOSE
GROVES, ALISA A
GROVES, SEAN W
GUERRERO, LISA A
GUERRERO, VINCE
GUTIERREZ, HENRY
HALL, ROBYN L
HATFIELD, DEANNA E
HERH, YANSHANG
HERNANDEZ, LISA M
HODDE, GORDON
HUTCHINS, ASHLEY
IGROOM AT YOUR CURB
JIMENEZ, MARIA
JOHNSON, JENNIFER N
JORDAN, CANDYCE J
KEY, CRYSTAL
KING, CHEREEN M
KRICHMAR, IGOR
LANCASTER, RACHEL
LIBRADO, RICHARD
LISK, JAYMIE M
LOSS, N
LOWE, A
LOZANO, PAULA C
MACY, MARY L
MALDONADO, RUBEN
MALONE, JENNA
MANN, JEREMIAH
MARQUEZ, MARCELA B
MARRUJO, CASTON
MATTHEWS, ANNA K
MATTO, LETIZIA
MAZON, VALENTIN
MAZZOTTA, T
MCMILLAN, ANDREW D
MENDOZA, HILARIO
MENKE, JENNIFER L
MERATH, ALEXANDER
MEYERS, MAE
MILLER, OMER G
MILLER, RYAN L

MARGARITA RD 2014 (Cont'd)

41770 MILLS, CASSANDRA V
MIRACLE, ERIC
MOHAMED, JIHAN A
MOORE, BROOKE
MORENO, CLAUDIA
MOREY, JOEL
MOYA, MARIA
MROSS, MEGAN
MUELLER, CONNIE
MUMMERT, ERIC A
MURPHY, MICHAEL A
NAVARRE, CAREY
NAVARRETE, MICHAEL F
NISHIMURA, SATOSHI
NORMAN, PHILLIP W
OCHOA, GABRIELA P
ORTEGA, JAIME
PEINADO, DEBBIE
PEREZ, CARLOS R
PEREZ, MOSES
PERRAULT, JACOB J
PLUMBING CONNECTION
POOLE, DAVID
POTTS, K
QUICK, MICHAEL D
RAMIREZ, SINDY
RASCOE, KEITH
REILLY, MELISSA
RENDON, JOVITA
RENDON, MARGARITA R
REYNOSO, MARIA D
ROBERTS, MICHAEL B
ROBINSON, CARRIE J
RODRIGUEZ, VINCENT
ROSKEPAMARAN, ANTHONY
ROTHGEB, JIM H
RUHE, SHELLEY L
SALAZAR, VICTOR
SALYER, SARA A
SCHLITZ, CAROL M
SCHRADER, ROBERT E
SINGH, SUDARSHAN
SOLIS, ELSIE N
SPEARS LEE
SPEARS, LEE G
STIMSON, NICHOL
STONER, STONE
STOUT, KELLY A
SWIFT, TRENT
TASSONE, DOMINIC

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MARGARITA RD 2014 (Cont'd)

41770 TAYLOR, ROBERT
THOMPSON, REBEKAH
TINTELNOT, FRANCES H
TUCKER, CHRISTIN
TWIST, KAREN L
TYLER, ADAM
VANDERHOLST, HARRY E
VANVLIERBERGEN, A
WAFFORD, LINDSAY
WAGNER, MAKAYLA
WAIT, DONYVAN L
WELCH, DAYNA
WELTON, DONALD W
WEST, KATHRYN E
WESTLING, SELENA C
WHITSON, AMY
WHYE, GLENN
WILSON, JOHN T
WOOD, STEVEN T
YOUNG, DREW

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

SOLANA WAY 2014

29605 ABERNATHEY, CARL
ABRAMS-MISBEEK, MARK A
ACACIA PARK RESORT APARTMENTS
ADAM, KARIM
ADAMS, BRADLY L
ADVANTAGE SPAS & POOL REPAIR
AGUAS, ARSENIO D
AGUIRRE, TANYA
ALEXANDER, RICHARD
ALGERI, FRANK
ALMOND, CAROLYN K
AMERICAN SERVICES TODAY INC
AN, ALEXANDER
ANGELICA, DIAZ
AVILA, FANNY
BARCALOW, JANITH T
BARNECK, JESSICA
BARNHART, RACHEL M
BEAM, ROBERT
BEARD, RICHARD
BECKSTEAD, THOMAS P
BELMONTES, MENDOZA
BELTRAN, SANDRA
BENNETT, SCOTT S
BETHEL, RYAN
BORRELLI, ANN M
BRANDON, LUIS
BROWN, BETTIE
BROWN, GARY P
BURTON, JELANI
CALLANTA, NENITA
CAMACHO, ROXANNE
CAMPBELL, RONALD P
CARDARELLI, LISA
CARDENAS, WILMA J
CARLISLE, BRENDA
CARTER, ANTOINE D
CARTER, MATHEW
CASTANEDA-GOMEZ, JAIRO
CAZARES, NELLY
CERNEAC, VLADIMIR
CHAVEZ, EDGAR
CHEN, CHANJUAN
CLARK, E
CLARK, JOSEPH
CLARK, TIFFANY
CLYDE, ERIC L
COLBERT, KEVIN
CONROY, MARY
CONVERSE, ANNA

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

SOLANA WAY 2014 (Cont'd)

29605 COOPER, PHILLIP E
CORNETTO, CEBRINA
CORONA, SASHA M
CORRAL, LAURA
CORRALES, MARK
COTTINGHAM, DUSTIN P
CRAMPTON, HEATHER
CRAWFORD, WILLIAM W
CRIGER, KENNETH R
CUMMINGS, THEODORE
DELACRUZ, LORETO S
DELEON, YESENIA P
DENNIS, SONIA
DENTON, JACOB
DESSERT, LISA A
DIAZ, SARA
DIXON, DANIELLE
DIXON, GEORGIA R
DON COLLINS CONSTRUCTION
DREAM CATCHER EVENT PLANNING
DUDLEY, KYLE S
DUMAS, TODD
DUNNING, THOMAS
DURFEE, LISA
EGAN, STEVEN W
ELKINS, MICHAEL J
EMERY, BRIAN
ERWIN, NICOLE
FAULKNER, RONALD L
FINE, ERIKA
FIORINO JOHNSON JENNIFER
FLOWERS, JACQUELINE A
FOGLEMAN, GAGE
FREEMAN, MICHAEL
FRIGHT, KATHRYN M
FUCCI, ALYSSE M
GALLAGHER, DANIELLE E
GARCIA, ALVARO E
GARCIA, JESUS A
GHASEMIAN, MAANI
GILMAN, STACI L
GOMEZ, JACOBO
GONZALEZ, DERRIC D
GONZALEZ, PAUL
GOODE, WILLIAM C
GOTTLIEB, DAVID E
GRIMSLEY, ROBYN A
GUTIERREZ, SIMONIQUE
HAMBLIN, SCOTT
HAMMOND, WILLIE

SOLANA WAY 2014 (Cont'd)

29605 HANSEN, SABRINA J
HARVEY, SCOTT
HARVEY, TIMOTHY
HEIKEN, MARISSA N
HENEISE, MARK
HENSON, JAMIE L
HERNANDEZ, NICOLE
HERZOG, BRIAN C
HEWETT, JANINE
HHERRERA, HELEN
HIGGINBOTHAM, RON
HOLDREN, GRACE
HOUSER, CAITLIN
HUDSON, JOANNA
HUNT, BROOKE
IBARRA, DIVINIA V
ILAGAN, RACHELLE
JEFFERS, CHRISTOPHER P
JENKINS, KARISSA L
JESSUP, KORY
JESTICE, BEAU E
JIMENEZ, SANDRA B
JONES, GLEN A
JOO, S K
KARIM, ADAM
KENYON, JORDAN
KING, AUTUMN
KING, WILLIAM D
KIRKPATRICK, SCOTT K
KLEBA, BRADLEY
KRAFFT, MARK A
KTR CUSTODIAL SERVICES LLC
LANDEROS, BLAS
LANG, MARIE
LAVAOLEE, SEAN
LAZARO, JACOBO
LEACH, BRIAN P
LEWIS, CHERYL
LEWIS, KEITH
LIND, MARK
LINGEFELT, HEATHER
LOERKE, FRANK H
LOFTON, IYONNA
LOPEZ, EVA
LOUANGAMATH, KRISTINA
LOUIE F ADAMS III LEGACY
LUIS, BRANDON
LUJAN, LEONARD L
LUND, JAY
LYDDY, BRIAN

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

SOLANA WAY 2014 (Cont'd)

29605 MAHAN, DERRICK L
MALDONADO, MIGUEL A
MALONEY, BRADY
MANSFIELD, HEATHER L
MANTHE, CHRISTINE L
MARTIN, ROBERT
MARTINEZ, JUAN L
MAWIEN, DENG
MAZZOCCO, MARK A
MCCALMONT, CINDY
MCDONALD, CHRISTOPHER
MCKENNA, BARRY S
MCKOY, DANYELLE
MENDEZ, LORENZO
MICCICHE, CATHY
MIDDLETON, AMANDA
MILLER, WILBUR
MILTON, STACEY A
MORON, JANET
MOTON, FARRELL
MOYER, TIMOTHY C
MUSIC, RYAN
MUTASHOBYA, GEORGE
NAVARRO, CECLIA
NEWCOMER, JEREMIAH
NEZ, MEGAN
NGUYEN, TAMMY T
NICOLAS, TONY S
NOLAN, JANICE
NOLAN, TERRI C
NORTON, ANGEL
OAKES, BETH A
OBRIEN, HEATHER
OCONNOR, JUSTIN R
PABON, MICHEAL
PACHECO, RICHARD L
PALLARES, JERRY
PANT, RITU B
PANTING, MATHEW
PASCUA, CHARIOLAN S
PATTON, DIANA
PECKHAM, ZACHARY A
PENA, FROILAN E
PETTET, JOANNA J
PHAPHON, JERRY
PISANELLI, FRED
PLEASURE, YVETTE
POOS-GUILD, MARIA
PURDY, JOHN
RALSTON, MICAH T

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

SOLANA WAY 2014 (Cont'd)

29605 RAMIREZ, JESUS
RAMIREZ, PAULINA G
RAMOS, MIGUEL G
RANGEL, RENE R
RC MORTGAGE INC
RECHT, KATRINA
RENSCHLER, CARRIE J
RICE, TERRY
RIGBY, BOBBIE M
RILEY, DUSTIN M
RIOS, RAUL
RIVAS, DOUGLAS
RIVERS, THEOEDOESH L
ROBERTSON, DARBY K
ROSE, ELIZABETH
ROUSE, BRANDY L
RUIZ, ADRIANA
RUNNING 4 A CAUSE LLC
RUSSELL, CHRISTINA
RUSSO, ANGELA
SALGADO, MAIRA
SANDERS, AMANDA
SANTOS, NICOLE
SANTOYO, VERONICA R
SAPHIRE HOLIDAYS INC
SARRA, SHIRLEY A
SAW, ROGER S
SCHRICK, ERIC
SCRIMENTI, SAVERIO
SEELEY, JOSHUA
SHAW, TAYLOR
SHEPHARD, MARK A
SLAUGHTER, KENNETH F
SLOAN, MICHAEL V
SOLIDAY, CELINA
SOTO, BRIAN
SPANGLER, TRACEY
SPRAGUE, BILLY J
STABER, TAMMY L
STEGMANN, BRUNO
STEHLE, JOHN F
STIEBER, KILAUNI
STOCKTON, BRANDIE
SZABO, SUSAN M
TEMECULA VALLEY GOLF SHOP
TING, LARRY
TOOMBS, WENDY A
TORRES, ANTONIO
TORRES, JORGE L
TREVINO, ROGELIO

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

SOLANA WAY 2014 (Cont'd)

29605 TRIMBLE, JOY L
TRULES, FERNANDO
TUNE TIME
TURNEY, MANDY
URBIMA, BIANCA
VALDEZ, CYNTHIA J
VIGIL, MINERVA M
VILLARAN, JOHN
VILLEGAS, GILMARIE
VROMAN, HEATHER J
WAGNER, ANGELA
WATSON, KATRAY
WEBB, BRIAN T
WEDDLE, KATELIN
WEISHAN, CLINT
WHITE, JONATHAN R
WHITNEY, R H
WILLIAMS, MALIKA
WILLIS, CRYSTAL A
WILSON, LATOYA
WINDBIGLER, ERIC
WRIGHT, DEQUISHA M
YABUT, FRANCISCO
ZUNIGA, FRANK

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MARGARITA RD 2010

41624	MANGINI KEVIN D
	MR OLSON DEVELOPMENT CORP
41634	EXTRA MONEY NETWORK
41664	NORTH MODELS
41684	BERRY, JARED
	BYRNE, LINDSAY
	COPLEY, ALEJANDRIN
	FAGAN, PAMELA
	FRIEGO, GARY J
	LANDESMAN, ROBERT E
	LINDSKOG, ELIZABETH E
	LOERA, MARISOL
	LOPEZ, RAUL
	RITCHIE, DANIEL
	WESTERHOFF, ERIC C
41694	ARIZA, MIRNA
	COWLEY, LISA L
	HRDINA, AUDRY
	LIZARRAGA, NOE
	MARSCH, RICHARD
	NAVARRETTE, CARLOS M
	PATEL, POOJA
	SEBASTIAN, CHERYL L
	TORRES, FELIX
	VASQUEZ, MEGAN
41696	BURG, DIANE T
41704	DEBRA GAYLE DESIGNS
	HUGHES, CAROLYN J
	JOHNSON, B
	MILLER, JOSHUA R
	MOORE, SHAMONIQUE R
	SANCHEZ, JUAN
	STIDHAM, AMBER
	TROCK, ALEX C
41714	CAPITAL EXPRESS LLC
	JENKINS, AMY
	KDCORE LLC
	KEONI, KARLEE
	LOVE TO SEE YOU SMILE PHTGRPHY
	MILES, J
	NOWLIN, REBECCA G
	RIEGER, JASON
	SMITH, PHIL N
	WARD, CAROLINE A
41724	BOLANOS, RIA
	BURNETT, TIFFANY
	CLARK, BENJAMIN W
	DK CREATIONS LLC
	ELLISOR, LONNIE B
	EVANS, KRISTAL

MARGARITA RD 2010 (Cont'd)

41724	FAYERWEATHER, MEAGAN
	GABRIEL, JENIFER M
	GONZALEZ, CARLOS
	HOWARD, BYNUM B
	KIM, STEVE H
	MCGOWAN, JOSEPH
	RODRIGUEZ, MARIA
	RUSK, JIM
	SWEENEY, IAN
41734	GONZALEZ, TANYA
	MARSHALL, EVELYN W
	NINOSKY, MATTHEW J
	OLENO, JORDAN M
	RIVERA, BLANCA
	SATORI COMPUTERS
	STETSON, ROBERT K
	TAAL, GREG
	VANEGAS TAX & ACCOUNTING
41744	AGNARDO LANDSCAPE
	CABRERA, DRICSINIA
	CASTILLO, MARTIN
	GERMER, ANTHONY D
	JUST CHILLIN SOUND
	LUSH, GINA M
	MARTIN AND JONES LLC
	MCCORMICK III DAVID
	MCCORMICK, DAVID W
	NEW UNITED TECH INC
	SCHLANSKY, HELEN M
	SINGH, SUKHJIT
	USA CAPITAL FUNDING CORP
41754	ESCALANTE, ROGELIO
	SOLANA RIDGE APARTMENTS
	SOLANA RIDGE LLC
41770	ALLEN, NIMROD
	ALMEIDA, KRISTAN
	ALTAMIRANO, NORA
	ALVAREZ, JOSE G
	AMBARDEKAR, MANOJ T
	ARMOUR, DAVID
	BAKER, RACHELLE L
	BALBIER, JENNIFER
	BATCHELDER, NATHAN
	BENTLEY, RACHEL
	BERO, JOANNA
	BLINN, DANIEL R
	BOEHM, AMY
	BOTTORFF, CARLY K
	BOWIE, DESIREE
	BYLER, KEVIN W

MARGARITA RD 2010 (Cont'd)

41770 CANALES, RENATO
CARTER, JESSICA
CASTRO, CANDIS
CEPEDA, JERILYNN
CERRITOS, MAGDY
CHAVARRIA, LINO
CHAVEZ, MARIAH
CHUNG, YASMIN J
CIMMINO, CHRIS
COLLINS, TAMARA L
COPPENRATH, KATIE
COVALESKI, SARAH
CRAWFORD, JEREMY
CURRY, LEAH D
DAVIS, MATTHEW J
DAWSON, CHARLES A
DEGA, B
DEJESUS, CATALINA
DIXON, VERDA
DOYLE, MICHAEL H
DUNDON, M
EDGE MASTER
FARMER, CARL
FIX IT ALL
FLORES, MARISA M
FREDERICK, DAVID
FRIEND, OLGA
GARFIELD, AUDREY E
GONZOLEZ, MIGUEL
GOVEA, IRMA
GOZLAN, YANIK D
GRAY, GERALD L
GRAY, TREVOR
GRINBERG, VIOLET
GROVES, JUSTIN P
HAFT, JENNIFER N
HAMMONDS, JIMMY
HANSON, RICK F
HATFIELD, DEANNA E
HAWKINS, WENDY
HEAVEN SENT TOURSCOM
HEHNLIN, JUSTIN R
HERNANDEZ, CESAR
HERNANDEZ, JOSE
HEUETT, MICHAEL
HODDE, GORDON
HOELSCHER, SCOTT A
HOLLAND, SIOBHAN
HULL, DAWN L
HUNTINGTON, JESSICA

MARGARITA RD 2010 (Cont'd)

41770 JANG, YOUN J
JIMENEZ, MARIA
JOHNSON PROMOTIONAL PRODUCTS
JOHNSON, RICHARD
JONES, KIM S
JOVEL, JOSE A
KANDIE, KELLEY
KAZUK, JEFF
KELLY, JOSEPH T
KERR, CHRISTINE
LARIOS, AGUSTIN R
LARSON, BRYAN D
LEAVES MILITARY ALLIANCE INC
LICON, MACKENCIE
LINDER, DUSTA
LIVESLEY, MICHAEL W
LIZAMA, CHARLENE M
LONG, TERISSA
LOPEZ, JUANA
MACY, MARY L
MALONE, DANIEL A
MARGETTA, JESSICA L
MARTINI, JESSICA
MATTHEWS, ANNA K
MEDIWAKE, MELROSE H
MEEXAYVANH, SOUK S
MEJIA, ALBERT F
MENDOZA, HILARIO
MILLER, OMER G
MORAGA, BRANDON
MORRIS, JOEY
MOSES, MONICA
NUNEZ, JULIE
OCEGUERA, VERONICA
OHALLORAN, DAVE
OJEDA, CONCEPCION
OLMEDO, ARMANDO
ORTIZ, RAUL S
PELAYO, A
PHILLIPS, NATHANIEL
PIERCE, SARAH
POTTS, TRICIA A
PURNEY, STEPHANIE
QUESTEL, ANTHONY
QUIOBO, ROSAURO C
RALSTON, ROBERT J
RAMIREZ, DEAN G
RAMSEY, JEANNE L
RENDON, MARGARITA
REYNOLDS, MIKE E

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MARGARITA RD 2010 (Cont'd)

41770 ROBBINS, LAUREL
RODRIGUEZ, CLAUDIA
RODRIGUEZ, JOHN M
ROGERS, MICHAEL
ROMAN, JESSICA
SANTANGELO, KELLY L
SCHEU, MICHAEL J
SCHRADER, ROSE R
SEKHON, HERCHAND
SEVERN, MARK
SI, ELAINE
SIMPSON, AMY
STEPHENS, M
STEVENS, KEVIN
SUGA, HIDETAKA A
SUH, DAVID D
TABONE, MAY B
TARRANT, BRYANT V
TNT HOUSE CLEANING
TURINO, DAVE M
TURNEY, STEPHANIE L
TZAMARIAS, IONNIS
VANDERHOLST, HARRY E
WALKER, KYONG
WARE, THOMAS E
WEGHORST, CRAIG N
WERNER, ADAM
WIEDRICH, NATHAN E
WILLIAMS, ADRIAN
WILSON, JOHN T
WILSON, JTHOMAS T
WOOD, LAURA J
WRIGHT, STEVE S
YANG, WANMEI Y
41773 DAVIS, KENNETH E

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SOLANA WAY 2010

29605 3D MARKETING LLC
ABCHICHE, MALIKA
ACACIA PARK RESORT APARTMENTS
ACEVEDO, CHRISTIAN A
AGUIRRE, ANDRES
ALATORRE, PETER
ALMOND FOUNDATION
ALMOND, CAROLYN K
ALVAREZ, JULIO
ALZANOON, NAJWA
ANDERSON, KASANDRA
ANDREWS, TRACY M
ANTOLAK, MINDY
ARLA, JAVIER
ARMSTRONG, MICHAEL
ARRIAGA, ROBERT
AUT 2 COMMUNICATE
AYALA, ACEVEDO C
BACTAT, ERIN
BAGALEY, AMBER M
BANKS, JOHN M
BARCALOW, MATTHEW E
BARONE, SEAN
BIO THREADS
BISON PROPERTIES LLC
BLACK, ANDREW E
BONDY, GREGORY A
BREDEMEIER, LYNN
BREWER, RICHARD W
BREWER, STACY
BRINK, JEFFREY D
BUCKLEY, PAUL H
BUCKNER, ASHLEY
BURK, JOHN W
CALVO, SAUL T
CAMACHO, KILAUNI R
CANNON, LIZA G
CAPSAVAGE, ASHLEY
CARDONA, JENNY
CARLISLE, BRENDA
CARSON, BILL
CATUIRA, RUBEN R
CAULK, LEIGH
CECCARELLI, JOSHUA
CECCHINO, D
COLARUSSO, HARRIET
CONNER, ROXANNE L
CONNOLLY, NINA M
COTIN, MARIENELL
CRAIG, HELEN M

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SOLANA WAY 2010 (Cont'd)

29605 CROUCH, ISAAC
CULLEY, JENNIFER
DEAN, G
DEEBLE, S
DEFELICE, RICO
DELACRUZ, RICARDO S
DELGADO, TIFFANY
DESAMOURS, REGINA
DOE, JANE
DOMINGUEZ, MIRIAM
DOSE, TAMMY
DRILLING, KARL J
DURAN, JADE
DURFEE, LISA
ENGLISH, CRYSTAL
FALEY, ANDREA
FARRIS, SHANNA K
FINKLESTEIN, NICOLE
FISHER, JARED
FLEEK, ANDREA L
FLORES, MARTHA
FOSTER, DANIELLE
FOX, MILA
FRAPPIER, AMANDA R
FUKUDA, RYAN
GAYLORD, CANDICE B
GHASEMIAN, MAANI
GIBSON, DAVID A
GILLESPIE, WAYNE
GOMEZ, DAVID
GOMEZ, MICHAEL A
GONSALES, PATTY
GONSALVES, SONYA
GONZALES, BRIAN M
GOODE, WILLIAM C
GOODEL, EWEL
GOODELL, JEWEL A
GOTTLIEB, DAVID E
GRAFFAM, DEBORAH
GREER, MIKE P
GRIFFIN, MICHAEL L
GRIFFITH, MICHELLE L
GUERRERO, KATRINA
GURMANKIN, NATALIA
GUTIERREZ, RAUL
HARDGROVE, CARLA
HARPER, AUSTIN
HEIMBACH, PATRICK C
HERNANDEZ, REYES P
HICKEY, SANDRA E

SOLANA WAY 2010 (Cont'd)

29605 HOFFMAN, JULIE
HOGERHEIDEN, LAUREN
HOLGUIN, HOPE
HOLT, ANNIE
HUMBOLT, LEEANN
HUNT, STEVE C
HYDE, LORRAINE
JACOBSON, STEVEN
JONES, ALYSSA
JONES, KENNETH W
JORDAN, JOEL
JPR STONEWORKS INC
KEATON, STEVEN M
KHALIL, WALEED
KING, NIHKIE
KNAPP, SUSAN P
KODZIK, SARA
KTR CUSTODIAL SERVICES LLC
LADRIDO, NIKKI
LANG, CHRISTIAN
LANGILL, WILLIAM T
LASLEY, DEBRA D
LE, DAVID
LEE, BOB
LEGLEITNER, BRITTNEY
LEIBMAN JEFF ATTORNEY
LINDSTROM, MICHAEL
LITTLEFIELD, RASE
LOHMAN, JOYCE H
LOPEZ, TOMAS
LUJAN, LEONARD L
MACIAS, MERIE
MAGDANDAY, R
MAHAN, DERRICK L
MARTIN, ANDREW D
MARTINEZ, CARLOS
MARTINEZ, DANIEL M
MASCIARELLI, MATHEW
MAYER, MELYSSA
MCCARTNEY, PATRICIA A
MCCLURE, RUSSELL
MCDUFFIE, KATHY D
MEDLAND, KRISTEN
MEJIA, WENDY M
MENDEZ, CONSUELO M
MERIWETHER, LAVARITA
MERRILL, NORMA
MESTAS, MORIAH
METSGAR, DARRIN
MILLER, ROBERT G

SOLANA WAY 2010 (Cont'd)

29605 MITCHELL, GREG
MITLO, PAUL
MOORE, NICOLE
MORENO, ANGEL
MORENO, ANN M
MORIARTY, MATTHEW
MORRIS, KATI
NAIK DELIP
NDONG, COUMBA
NICOLAS, TONY S
NICOSIA, JENNIFER
NOGALES, RICHARD L
NOLEHS MANAGEMENT LLC
OAKES, BETH A
ONEIL, HEATHER S
ORDONEZ, MARIA J
OROSCO, DEYANIRA
ORTA, JACQUELYN
PADILLA, MERLIE
PALLERMO, KALLENA
PALMA, KRISTINE M
PALMER, VICTOR
PAN, WENBIN
PARK TRANSLATION LLC
PARRISH, MATTHEW D
PARSONS, THERESA M
PEARCE, DEBORAH
PEELE, SEAN
PENA, CAMILO
PERFORMANCE BUILDERS
PETTET, JOANNA J
PLATNER, AARON C
POIRIER, BEVERLY
POJAS, ERNESTO
PROVIDENCE FAMILY WINERY INC
RALSTON, MICAH
RAMIREZ, JESUS
RAMOS, MARIA
RAWSON, JAMES
RAYSON, LEONI
REEVES, LORAL D
REICHARDT, LISA R
REPFIN, ADRIENNA
REVOIR, REBECCA
REYCON TECHNOLOGY GROUP INC
RICE, THERESE M
RICHIE, SCOTT
RIGBY, BOBBIE M
RILEY, MATTHEW
RIOS, RAUL

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SOLANA WAY 2010 (Cont'd)

29605 RIVADENEYRA, ELIA
RIVERA, PATRICK
ROBERTS, QUINEICE R
ROBERTSON, CHERYL A
RODRIGUEZ, EDGARR
ROEL-RIVAS, HERMINIO
ROULEAU JOSEPH
RUBIN, JOSEPH M
RUNNING 4 A CAUSE LLC
RUTHLEDGE, LYNN M
SALES, APRIL R
SAMPSON, LETITA
SAMUELS, ANTHONY
SANDQUIST, MARGONNE C
SANDS, ROBERT
SAUCERMAN, JAMES D
SAW, ROGER S
SEARS, LARRY
SEGURA, ANGEL
SEITZ, ASHLIE
SHABANSKY, BEN
SHANGRAW, BARRY
SHEA, DONALD W
SHU, PING
SHULL, SETH
SHULTZ, MARJORIE
SILCOX BRANDON R
SLAUGHTER, KENNETH F
SMITH, JOHN C
SOTO, BRIAN
SPENCE, ELVIS
SPRINGER, CHRISTOPHER K
STABILE, JEANA
STANLEY, LUCY
STARK, GARY S
STEPHENSON, FRED L
STRAKON, LUCY
STROPKO, APRIL
SWAN LANDSCAPE SERVICES
TADEO, ANABEL
TEMECULA VALLEY GOLF SHOP
TESCH, SANDY
THELEN, JILL
THOMPSON, DAVID
TORRES, JORGE L
TORRES, RHIANNON R
TRAN, VINCE
TUNE TIME
TURNER, STACEY M
UMALI, GENOVEVA

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SOLANA WAY 2010 (Cont'd)

29605	VANTERPOOL, SHAQUANA
	VARADARAJAN, AMRUSHA
	VARGAS, MARIA
	VEROS SPA ESCAPE
	VIGIL, MARC
	VONEPS, CHRISTINA
	WATSON, LAROSA
	WHITE, ALLEN W
	WILLEFORD, JAMES A
	WILLIAMS, JOSHUA
	WILLIAMS, SHEENALYNN L
	WILLIS, CRYSTAL A
	WILSON, BARRY L
	WIMBERLY, NICHELLE M
	WOLFE, JAMES
	WRIGHT, SCOTT M
	YANGA, D
	YARK, YOUNG
	YOUNG, LISA M
	ZALA, KELLY Z
	ZIAEI, KAMYAR
	ZIMMEMAN, RANDY
29615	RAMPH, TOBY

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MARGARITA RD 2005

41624	RHINO BUILDERS
41654	CADBURY SWCHWEPPES AMER BEVS
41684	BERRY, JARED
	BRIGHT, THOMAS
	COPLEY, ALEJANDRIN
	DAVIDSON, GREGORY W
	DELEON, RODNEY
	FAGAN, PAMELA
	JO, HYUN C
	JONES, ROBERT A
	KENDALL, M
	LANDESMAN, ROBERT E
	MCMILLIAN, TIM
	RODGERS, S
	SACAMAY, JAMIELENE
41694	BLAKESLEE, HEIDI M
	CANDA, LEONEL
	DESROSIERS, JOSEPH
	EISENHAUER, BILLY L
	FOUST, GREG
	HRDINA, AUDRY
	LANDETA, JORGE O
	PATEL, POOJA
	PORTER, ARTHUR
	RANSOME, JOSEPH
	RIJNHOLT, NANCY A
	TAYLOR, MARK A
	TRUCKENBRODT, CRAIG A
	VASQUEZ, MEGAN
	WILLIAMS, JOYANNA
	WILSON, DAVID
41704	ALL PRO TRANSMISSIONS
	ANDRADE, KARINA
	CASTRO, WANDA
	CRUZ, LAURA S
	DAIGLE, GLEN
	DO, NICHOLAS L
	GARCIA, ROBERTO N
	GRYTNESS, JENNIFER L
	HARGIS, DENNIS
	HIDALGO, JIMIE
	HUGHES, CAROLYN J
	LACROSS, LAWRENCE R
	MARKUS, DUSAN
	SUT, DEBRA
	TUCKER, VIRGINIA
	WEEKS, MARGARET A
	WOODS, PAUL
41714	BLUE DOT INTERNATIONAL
	CAPITAL EXPRESS LLC

MARGARITA RD 2005 (Cont'd)

41714 CAPORALE, EVELYN J
CHUNG, INOK
DAVIS, PHIL R
DURNIN, MARLA J
HAAR, STACEY
HAN, DAE
JURADO, LORENZO
LIM, BILL
MARTIN, EDWARD
PATEL, KOMAL
QUINTANA, SHERYL
VILIUNAS, SVENJA
WORTMAN, JERRY A
41724 ARAGON, ELIZABETH
BOSHART, PHIL
BURNETT, TIFFANY
FREEMAN, JOSHUA S
JARDIM, JUSTINIANO T
KENNEDY, GARRY J
KIM, STEVE H
MARADA, CHANTIL
RODRIGUEZ, MARIA
ROWLETTE, SANDRA K
SANDERS, BEVERLY
SEAL, TERA
SEREGHETTY, DOUGLAS
SHIOZAWA, TAKEO S
SONNENBERG, MARK
YOUNG, JASON S
YULFO, CURTIS
41734 BAILEY, ANTHONY D
BRAVO, DANIEL M
EPPLEY, JAMES
GALLWAS, VALERIE O
HANSEN, MAUREEN
HAWSON, MARIA
HOUGHTON, NICOLE
KOSTRINSKY, MATHEW S
SHINNEFIELD, ANDREW R
ZHANG, JEAN
41744 BIGGERSTAFF, HANNAH
BOSSALLER, JAMES E
DOYLE, DAVID A
FELIX, BRANDY
FIGUEROA, GREG
GIBSON, JAMES A
GONZALES, JUDITH M
KREY, DAYNE K
LAYTON, TODD
NATIVE TURK INC

MARGARITA RD 2005 (Cont'd)

41744 ORBITAL ONE CORP
PROVOST, KRISTY
SHERMAN, JOHN
SORNBERGER, PAUL L
STORY, NATHAN
WEBBER, WESLEY W
41754 SOLANA RIDGE APARTMENTS
41770 ABRAHAM, SOOMODH
ACUNA, EDWIN
AMBARDEKAR, SHAILESH J
ANDERSON, MARY J
ANDRADE, JESSE C
BACARELLA, JAMES G
BALTIERIA, R
BARATTA, ERIN C
BELANCHARD, DEBRA
BEN, R
BERGER, ANDREW
BERMUDES, LOUIS
BILAK-SACKIN, K
BLINN, DAN R
BLOSS, PAM
BOLES, ANTHONY
BOULLAIN, TERESA A
BROWN, STEVEN P
BRYANT, LEE
BURKE, ANGELA
BUTLER, MATHEW
CAMACHO, PATRICIA T
CHARRON, MAGDA J
CHERRI, MOHAMED
CLAM, SUSAN
COLE, TIMOTHY R
CONSTRUCTION TECHNOLOGY CO
COOK, JEFFREY
CORDE, ANNA R
CRAWFORD, KRIS
DARLING, CYNTHIA A
DECOSTA, KATHRYN E
DINARDO, T
DIXON, VERDA
DOWNEN, OLIVIA
EDWARDS, ROBERT E
ELLIOTT, ROBERT
ESPINOZA, CUAUHTEMOC
FALLON, KATHRYN M
FARMER, M
FERNANDEZ, ELVIA J
FERRISE, DANIEL J
FINCHAM, AL W

MARGARITA RD 2005 (Cont'd)

41770 FLORES, MAGALI
FREEMAN, VINCENT
FRITZ, LISA A
GARZA, EDWARD J
GIBBS, MICHAEL S
GOZLAN, YANIK D
GRYGO, JAYNEEN
HATFIELD, DEANNA E
HAVRANEK, BRADD L
HEHNLIN, MICHELLE
HERNANDEZ, BLANCA
HERNIGE, HEATHER
HESSE, JEFF
HESSES WELDING
HILL, ALLEN L
HINDSON, MARIANNE
HITCHCOCK, MICHELLE
HODDE, GORDON
HOELSCHER, SCOTT A
HWANG, YOUN
JOHNSON, CAROLYN
KELLEY, CHRISTIA
KERMATH, JERROD M
KNERDSOFT
KNURCK, MICHAEL K
KOLSKI, PETE
LAURA, V
LIVESLEY, MICHAEL W
LOFTS, JASON
LONGLEY, JAMES F
MAAS, ADRIENNE
MACEDO, WANDA
MALLORY CONSTRUCTION CO
MANNING, QUINN
MARGETTA, JESSICA L
MAUPIN, B
MAYER, KRISTIN A
MCINTOSH, RYAN
MCKENNEY, LYNETTE
MCKENZIE, DAWN
MCNALLY, JAMIE
MELINAUSKAS, TINA L
MENDOZA, HILARIO
MENDOZA, JANELL S
METZLER, COREY M
MEZA, SIMPLICIA
MILLER, JEFF
MILLER, JUSTIN
MILLER, OMER
MINGURA, ANNETTE

MARGARITA RD 2005 (Cont'd)

41770 MOBLEY, K
NAVARRO, BRIAN F
NELSON, KELLY
NEWBOLD, DAN
NGUYEN, BLANCA E
NISHIMURA, SATOSHI
NUNAG, HIDELISA S
OCHOA, SIGILFREDO
PELAYO, A
PETERS, ESCHOL
PHIPPEN, TERRY J
POLLARD, JASON R
PORTER, RICKY D
RAMSEY, JEANNE L
RASENDEZ, MELISSA
RAYA, EDWARD S
REYES, SHEILA
ROBERTS, SETH A
ROGERS, MICHAEL
ROYBAL, EDWARD D
SANTOS, SIDIA
SAVENA, CASSANDRA
SEITH, SHIRLEY S
SERGE, JANELL
SHAHBAZARAMY, ZAYA
SILVA, GISELLE
SNODDY, JOHN A
STALLINGS, JOSEPH V
STARK, ELISA Y
STEPHENS, PETER A
STRALEY, STEVE R
SWEETNAM, CAROL
TABONE, MAY B
THEODORE, C
THOMAS, KRISTIN H
UELAND, AUTUMN
WARRUMM, JAMES M
WETHERELL, TIFFANY
WHIPPLE, BRANDON L
WIEDRICH, KENNETH C
WILDFIRE MARKETING
WRIGHT, JIM L
WRUCK, J
41801 GOOD & ROBERTS

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SOLANA WAY 2005

29605 A2Z RECEIVABLES MANAGEMEN
ACACIA PARK RESORT APARTMENTS
AHEARN, PATRICK
ALAVAR, JOSEPHINE
ALMOND, CAROLYN K
AMMONS, VICTOR H
ANDERSON, BRANDON L
ANDREWS, TRACY
ANTONIO, ROBERT
APGAR, CHRIS
ARMAS, OLIVA
ART2CD CO LLC
BACA, JAMES K
BAILEY, VALERI G
BAKER, ROBERT A
BARBER, ERNEST C
BARCALOW, MATTHEW E
BARNETT, M
BARRIENTOS, LYDIA
BARRON, AMY
BASKETT, ELIZABETH
BECKER, JULIE
BEGLEY, THOMAS B
BELL, JONATHON L
BERMUDEZ, L
BERRY, TOD S
BISON PROPERTIES LLC
BLAIR, D
BLAS, JORGE
BLOCKER, JASON R
BLUE SKY
BONDY, GREGORY A
BONE, GLADYS
BOYD, J
BRADSHAW, WILLIAM
BRANDENBURG, JANET G
BRENNAN, JENNIFER
BREWER, NANCY
BREY, CHRIS
BRIGGS, CURTISS
BRINK, JEFFREY D
BROENING, DUSTYN I
BRUNSON, ROBERT L
BURKETT, CRAIG J
BUTLER, JOHN
BYRNE, LINDSAY
CABANISS, SARAH C
CALIF, ACACIA
CANNADY, MICHAEL
CANNON, LIZA G

SOLANA WAY 2005 (Cont'd)

29605 CARSON, BILL
CARTER, SAMUEL
CHA, KAZOUA V
CHIEW, DAVID
CLOONAN, SEAN P
CLYDE, ERIC L
COLE, KATHRYN L
COOPER, PHILLIP E
COOTER, TAWNYA
COVANY, DAVID M
COX, L
CROCKER, JASON
DARPINIAN, AHARON A
DAVIS, SEMAJ B
DEFELICE, RICO W
DEGNER, MARIAN
DELGADO, TIFFANY
DEVENEY, TIFFANY
DEVETO, TONY M
DIEDERICH, ELLEN E
DOMINGO, ALFREO T
DONAHUE, WILLIAM D
DRILLING, KARL J
DUNKEL, TREVOR
ERTEL, JENNIFER
FAGAN, STEPHEN J
FALEY, ANDREA
FERNANDEZ, MARK
FISHER, THOMAS
FLEEK, A
FORBING, KIMBERLY
FOSTER, DANIELLE
GALLAGHER, DANIELLE
GALLUZZO, JEFF
GARCIA, ALVARO E
GATES, MEGHAN
GERBERDING, THOMAS
GIBSON, DAVID A
GILES, STEWART W
GOMEZ, MICHAEL
GRAZIANO, DANIEL T
GREEN, GERALD
GREGORY, JOHN
GRIFFIN, MARK A
GRIMSLEY, MICHAEL
GUTIERREZ, RAUL
GUY, W
HAJAVA DEVELOPMENT CO
HALE, ANTHONY
HALL, MAT

SOLANA WAY 2005 (Cont'd)

29605 HANSON, BENJAPORN
HARRINGTON, ROBERT V
HARWART, CLARITA
HEBERLING, JON
HENDERSON, CAROLYN
HERERRA, ANDY
HERRON, C
HICKS, DEBRA
HOLDREN, GRACE
HOLLISTER, J
HOSSEY, ABDULAH F
HOU, PIN H
HOWELL, NICOLIS
HUNT, STEVE C
HYDE, LORRAINE
INSTITUTE FOR INTERNATIONAL ME
IRVIN, SHARI
JEWETT, LISA N
JOHNSON, LAWRENCE M
JOHNSON, TRAVIS
JORDAN, LOUIS M
JUNG, MICHAEL
KANETRAR, KIRAN
KARP, JOSHUA V
KARR, JANET
KEATON, MELISSA A
KELLOGG, CHRISTINE H
KELLY MICRO INC
KIM, BYONG H
KIRK, SHEENA M
KISH, RANDY
KOVACS, DAWN
KUNZ, ZACH
KURTZ, SUZANNE
LEAIMEE, MICHAEL
LECHUGA, MARK A
LECUREAUX, JANICE K
LEE, JOHN
LEI, PEREZ G
LEWIS, SUSANNA
LIMAS, ABRAHAM
LINK, NICHOLAS I
LITTLEFIELD, PETER M
LIVERMORE, DAN
LOPEZ, CESAR M
LOWENTHAL, MILES
LUJAN, LEONARD L
MADDRELL, TRACY M
MADRID, IRENE M
MAGELLAN, ACACIA

SOLANA WAY 2005 (Cont'd)

29605 MALDONADO, SHANE M
MANLEY, SARAH
MARTINEAU, NICOLLE M
MARY CARTER
MCCURTER, MARK T
MCGUIRE, JONATHAN W
MCINERNEY, MAXINE Y
MCINTOSH, RAYMOND E
MCWILLIAMS MICHAEL
MEAGHER, DANIEL
MENDEZ, CONSUELO M
MEYER, MARK
MEYERS, GARY
MILLER, MIRNA
MILLS, GARY
MONTEFALCON, J
MORRIS, KATI
MOYA, BERTHA
MUCKLE, TRAVIS C
NELSON, JADE
NICHOLS, WILLIAM S
NINS, S
NIXON, CHARLES E
NOGALES, ROBERT
NUCUP, AILEEN
NYLA ENTERPRISES
OBREGON, JUAN
ODELL, HOLLY
OLIVER, W
ORADA, ERLLINDA L
ORDONEZ, MARIA J
PARIA, HARVING
PARK, RENEE
PARKIN, JARON
PARRISH, SIDNEY
PARSONS, THERESA M
PEACE, J
PERFORMANCE BUILDERS
PERSINGER, NOLAN
PESIN, PHILIP
PICKERING, KURT D
PIERINO, MARK P
PILIEN, FRANCESCA R
PORTER, TINA S
PROIOS, TED
PURSLEY, DUSTIN
RAINEY, BRIAN
RAMIREZ, MARTIN
RAU, REBEKAH A
RAYMOND, CANDICE

SOLANA WAY 2005 (Cont'd)

29605 RD WHITE ENTERPRISES LLC
REEVES, JARVIS M
REEVES, LORAL D
RENZEMA, WILLARD J
RICHIE, SCOTT
ROSALES, JOSE
ROSUCK, ELIZABETH
RUBIN, JOSEPH M
RUIZ, RUDY L
SACKETT, TRICIA M
SALAZAR, ROSA
SANFORD, JOHN R
SATTERWHITE, CHRISTOPHER
SCHAUF, ROBERT B
SCHMIDT, ADAM
SEARS, JOHN
SEIBERT, JEFFREY M
SHANGRAW, DANIELLE E
SHEA, DONALD W
SHIELDS, JOEL
SHOULTZ, JARED
SINGLETON, CASSANDRA
SLAUGHTER, KENNETH F
SLOWIK, SKY
SMITH, MAC D
SMITH, TIM
SOMES, IAN
SONG, KWANG H
SONGO INC
SOTIROPOULOS, CHRIS
SOTO, BRIAN
SOUSA, LORIE
SOUVA, JASON
SOUZA, MARCELO
SPITZER, NORMA O
STANLEY, MARCUS
STEWART, JOHN
SZEGEDI, JOHN
TALAMANTES, FRANCISCO
TANG, DANNY D
TAYLOR, PAUL
TERRY, CARA
THIBODEAX, JOYCE
THOMPSON-MOSER, DEEDEE A
THORNTON, DEBORAH K
TIEDEMANN, MANFRED J
TIZANI, NIDAL J
TODD, DENICE M
TOJIMA, MOSHIYASU
TOMPKINS, RICHARD L

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SOLANA WAY 2005 (Cont'd)

29605	TRAN, VINCE
	TRENT, WALTER L
	TURNER, STACEY
	VANBRUNT, STEPHEN G
	VANCE, RENEE
	VANDERVEEN, WENDY
	VERSTEEG, BRUCE W
	VILLANUEVA, MANUEL G
	WALDRON, KATHERINE
	WALLANDER, SANDRA
	WATKINS, B
	WAYMIRE, AMY
	WE GOT DIAMONDS
	WEHRSDORFER, BOB
	WEINER, DOUGLAS O
	WHITE, ALLEN W
	WILLIAMS, JOSHUA
	WILLIAMS, NICOLE
	WINCE GAVIN
	WOOD, SARAH M
	WRIGHT, SCOTT
	YARK, YOUNG
	YI, SANG
	YOUNG, LISA M
	ZIMMERMANN, BEY
	ZWIER, MICHAEL A
29615	RAMPH, TOBY

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MARGARITA RD 2000

41684	ABARCA, MONICA
	BARKER, KAREN G
	BLOCKER, ANNETTE M
	DULLWEBER, STEFAN
	FREEMAN, KENNETH A
	HILL, DON
	LOWTHER, JAMES G
	RODGERS, S
	SAUNDERS, CHRIS S
	VITAMANTI, FRANK
41694	BLAKESLEE, HEIDI
	CAO, J
	GUO, LEI
	RANDOLPH, EDWARD W
	TORGERSON, JAMIE
41704	BOOTHE, PAMELA K
	BOURNE, RODNEY T
	DAVIES, DAVID S
	GUERRERO, GREGORY F
	HILL, DAVID
	MCCAULEY, JOSEPH R
41714	ARELLANO, JOSEPH D
	AUSTIN, RIKI
	FERRELL, BECKY M
	JOYCE, BRYAN G
	KAISELL, CATHY A
	KALFELL, CATHY A
	KLUGER, K
	LARSEN, DAN
	SCHUMACHER, CRYSTAL C
	SEWARD, KIMAYA
	STATTER, KEITH E
	WHITE, BARBARA J
41724	BLACK, JAMES
	BRINK, CARRIE J
	BUXDA, MARIA
	DAVIS, DERRICK D
	DUNHAM, MARILYN E
	GOEHNER, BRIAN J
	HOWLAND, J
	KIM, JEONG W
	MOLSTRE, SHAWN E
	RYDBERG, SHAWN E
	SAMMON, JENNY P
	SHIOZAWA, TAKEO
	WANG, LISA H
	WILSON, DIANA C
41734	MARSHALL, E V
	MYERS, ALLISON
	NASH, C B

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MARGARITA RD 2000 (Cont'd)

41734	ROBBINS, SUSAN A
41744	CURTIS, C J
	EBRINGTON, DEBBI
	KASAHARA, HIROMI
	NATIVE TURK INC
	ORBITAL ONE CORP
	RICAFORT, JULIET
	ROTHBERG, SHARON
	STUBBLEFIELD, MARVIN
	TOKARCHIK, THOMAS
41754	ATTEBERY, MARK
	BEYNEN, A J
	MANDEL, RONNIE H
	ROPPO, MELISSA K
	SIMMONS, CONNIE
	SOLANA RIDGE APARTMENTS
41770	ALKINS, P
	ALVARADO, RAQUEL
	ANGSTEAD, JAMS B
	AUGUST, MATTHEW
	BAITY, MEGAN A
	BEZ, DENNIS
	BLEEKER, JOSHUA A
	BLINN, METTE
	BONINO, MINNIE V
	BOWERS, KIRT
	BRADBURY, MARK
	BRADLEY, BRENT
	BROWER, DAVID A
	BROWN, PAUL
	BROWN, V
	BUNCE, PAUL D
	CARDENAS, ROBERT
	CATCHING, MONIQUE M
	CHEVAL, SANDRA M
	CHRISTLER, SHARRY L
	CLARK, EDWARD
	CLARK, PAUL
	COLLIER, DAVID J
	CONNOLLY, BRIAN
	COOK, JAMES D
	DCRUZ, MELINDA
	DISERIO, JOE
	DISHAUZI, REBECCA L
	DODDS, MOLLY C
	DODOS, ROBERT
	DUARTE, L J
	DYER, JERALD S
	EDELBROCK, BECKIE
	EITNER, KRISTIN

MARGARITA RD 2000 (Cont'd)

41770 FAIR, ODELL S
FARWELL, K
FERCH, ROBERT G
FRITTS, DEREK E
GANZ, MELISSA
GIAMPA, GINA
GUYADEENE, SERENA
HANKINS, N
HARDY, MATTHEW S
HART, GENE
HEGBLOM, VANNER
HITCHCOCK, DAMIEN S
HODDE, GORDON
HONER, MARCUS M
HOPSON, WILLIAM
HOWELL, A E
HUNT, JAMIE
IDLOF, ANTHONY G
ISA, SUZIE E
JAGO, LORI A
JAMES, EDDIE
JENSEN, JOSEPH
JOHNSON, MICHAEL
JONES, ROBERT
JOSHUA, A B
KAISER, MARVIN L
KASPER, KARINA E
KELLY, TOMMIE A
KIEHL, C
KNAPIK, SELENA C
KRAMARSKY, DANIEL A
LARSEN, R
LAWRENCE, TARA D
LOFTAS, TINA J
LOPEZ, ANTHONY
MALONE, JOHN
MARES, ROBERT A
MARTIN, JOHN
MATTA, NASSIR
MCGRATH, P
MCKENNEY, DARENDA
MEDBERY, DOUGLAS D
MELLENDORF, DAVID R
MENDOZA, HILARIO
MERTEN, C P
METHENY, CANDYCE L
MORLEY, CELESTE A
MUNOZ, ARTURO M
MUSSER, C
ORLAUSKI, BRIAN

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MARGARITA RD 2000 (Cont'd)

41770 PALMER, JULIE
PARNELL, STEPHEN K
PJONTEK, LINDA
PORE, KARI L
PRITCHARD, MALCOLM
QUIROZ, STEPHEN J
RAMSEY, JEANNE L
RAUSTADT, JAMES J
RAYMOND, MILES
ROBERTSON, BRENT A
ROBINETTE, ANGELA M
ROBIRDS, J F
ROLLINS, KATHY C
ROSS, E
SCALES, RAEJEAN
SCHLICKMAN, JOHN
SCHMOLL, M B
SCHWABEN, M
SCOTT, JOSHUA
SERVETTER, DAVID
SHULTZ, JOSH J
STEVENSON, ELSA
SUTOMO, RAYMOND
TANG, C
TCHANG, CONNIE
THORSEN, DEBORAH L
TOMASZEWSKI, RACHEL
TRACY, DEBORAH L
UYEHARA, SIDNEY
VASVARY, BILL
VICERAL, CARINA A
WAIT, P K
WALCH, BRIAN E
WOOD, DOUGLAS
41781 SNYDER, TIMOTHY

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SOLANA WAY 2000

29604 GARDNER, BLAKE I
29605 A2Z RECEIVABLES MANAGEMEN
ACACIA PARK RESORT APARTMENTS
ADKINS, MICHAEL P
ADORACION, ASENSI
ALLIANCE FUNDING
ALTADONNA, BRIAN
AREBELO, G
BAILEY, ERICA
BALIAN, SAM
BARAY, STACIE L
BARBATA, ARIANNA
BEGLEY, THOMAS B
BEMILLER, DOUGLAS A
BENAVIDES, AARON
BENDER, CRAIG
BENIGNO, ADELINA S
BERGSTEIN, ROGER M
BERNARD, DANA J
BOLLIERA, EDWIN
BONDY, GREGORY A
BRAGIA, JEFF M
BRAVO, DANIEL M
BRAYE, ROY
BRESSMAN, DORIS E
BROOKS, CRAIG
BUFFORD, JOSEPH E
BURCH, LEAH M
BURKETT, CRAIG J
BUSH, OMALLAH P
CAMPOSANO, C
CARLSON, L S
CARMICHALL, ADAM W
CARPER, GLORIA J
CHAMBLESS, LEMOIN
CHENOWETH, DAVID J
CHIEW, DAVID
CHO, BRENDA
CLOONAN, SEAN P
COLEMAN, BURKE A
CORONA, IRMA C
COTTON, CARMELA
CRELLIN, JAMES E
CULBERTSON, SCOTT C
DAMJANOVIC, ROBERT
DAMMAN, DANA K
DAVIS, SEMAJ
DAY, DENISE M
DEFELICE, RICO
DEGUIA, MAYTHEL A

SOLANA WAY 2000 (Cont'd)

29605 DEGUZMAN, RYAN
DEJOHN, TERESA
DEMAREE, JAMES
DIEDERICH, ELLEN
DOLL, MATTHEW
DOTSON, LAILA M
DREW, TRAVIS P
EPP, M L
ESCALANTE, ANTONIO
ESQUIVEL, TERRI
ETIER, PAULA
FARRIS, SHANNA K
FARWELL, SCOTT
FINK, JOSHUA M
FITZGERALD, DENNIS
GANGI, E A
GARMON, HEWITT
GAUTHIER, S
GEMIK, DEBBIE
GERARDI, M
GLASGOW, CASSIE L
GOGA, JOHN
GONZALEZ, ENEIDA L
HASSAN, JERAD
HAYES, AMANDA M
HELTON, MICHAEL
HENEGAHAN, MARIE C
HINDERS, CRISTIN N
HINDS, ANDREW
HOPSITER, LISA
HUDSON, F E
HUNTER, ALICIA K
HUNTSMAN, NATHAN
JESSUP, CHRIS
JOCK, J A
JOHNSON, L
KAME, MARLOWE
KASA, RICHARD
KATZ, TAMARA
KEUL, JOHN M
KIM, JAE Y
KIM, JI H
LACROIX, C
LAIDLAW, CARMEN R
LANDER, DAVID A
LAPAGLIA, DORIAN J
LEE, S
LEGGO, MICHAEL
LEWERENZ, BILL P
LEWIS, BRIAN A

SOLANA WAY 2000 (Cont'd)

29605 LIEDER, ERICH S
LIN, ALBERT W
MAGNESS, ROBERT
MALDONADO, CYNTHIA
MALMASSARI, FRED R
MALONE, SCOTT J
MANNION, DAVID
MARRIOTT, HOWARD
MATTINGLY, DONNA L
MCDONALD, MARY C
MCFEELY, DANIEL T
MCLEAN, MERILEE
MEDLOCK, RICHARD D
MERRITT, KENNETH
MESA, ANGEL
MEYER, MARK
MISBEEK, MARK A
MONTIFALCON, JESSICA
MORGAN, LLOYD
MULLEN, RACHEAL D
MURPHY, PETER
NEMCIK, HELENA
NICKERSON, KEVIN J
NUNN, C S
ORR, CHARLA
PACHECO, ERIKA
PARDONNET, LYLE L
PARDUE, JASON W
PATANE, ARLENE
PATEL, K
PAYNE, DONALD F
PENBERTHYBALDRI, CHERYL M
PILACE, SONYA
PRATT, B
PROIOS, STELIOS
PSELOS, CHRIS
QUINLIVAN, JOE
RICHARDS, JANELLE M
RIVERA, AMY Y
ROBERTS, MARK C
ROBINSON, MAYTHEL
ROGERS, TIMOTHY E
ROYAL VENDING
SAUL, MICHAEL
SCHLEMMER, THERESA L
SCHMEHL, BRAD
SCHUTZ, BRYAN M
SENARITH, KANITHA
SHADLE, LISE K
SHEPHERD, JEANENE M

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SOLANA WAY 2000 (Cont'd)

29605 SHERIF, NAWAL
SHUAIBI, ISSA M
SHUBA, JOSEPH
SIMON, CANDICE
SMITH, EVELYN
SMITH, TONY
SNIDER, LESLIE
SQUIRES, VANESSA
STADICK, TYSON
STALOCH, JEFFREY
STEWART, ROBERT C
STICKLER, DAVID E
STREET, M
SWANK, RANDY
TESCH, BONNIE K
TISDELL, ADAM B
TORRES, FELIX
TOSTADO, TONY
TUDIC, BRANKA
TUSLER, LINDA
VAREY, SHAINA Y
VAZZANA, DANIEL E
VETROMILE, JOE S
VOSS, BRAD W
WALK, OLIVER R
WALLS, L V
WARREN, STUART C
WECKER, E
WEDEREIT, JACK
WHITE, ROBERT
WILLIAMS, JAMES
WINDHAM, JEFFREY S
YBARRA, C P
ZARAGOZA, LUCIO J

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MARGARITA RD 1995

41700	STOVER, E
41770	ABUR, SCOTT
	ADAMSON, TOM
	ADKINSON, CYNDI L
	ANDERSON, PRESTON
	ANSARI, MASOUD
	ARBITO, MARY
	ARCHER, MICHAEL
	AVILEZ, MARIA
	BAIDY, JEFFREY
	BARRON, C
	BELTRAN, JOSE L
	BERGMAN, MARTHA L
	BODGATBA, ROBIN
	BOIES, ROBERT
	BONACCORSO, MALLINA
	BONILLA, GERMAN
	BONNER, ELSIE
	BOUGATBA, ROBIN
	BRAMLEY, GARY F
	BRILL, MICHAEL
	BRUMLEY, PAMELA
	BUCHBINDER, SIMON
	BURNETT, CHRISTY
	CABAN, EVELIA C
	CHAMBERLAIN, G
	CHUNG, YOUNG
	COLE, M
	COTA, DAWN
	CRAFT, DAVID C
	CRAIG, MICHAEL
	CRUZ, SUSAN
	DEAN, WILLIAM S
	DEAREN, DEBORAH
	DIBERNARDO, SUSAN
	DICHOCHEA, MARTINA
	DUNN, DAVID
	EDWARDS, STEVE
	FAGAN, PAM
	FLORES, THERESA
	FORBES, EDWARD
	FRATER, KEVIN L
	GABLE, MARSHA V
	GALLOWAY, DONALD
	GILLIAM, M
	HAMSTRA, NICOLE
	HEMMINGSON, JERRY
	HENSON, A
	HERMANN, NENETH
	HESS, KATHY

MARGARITA RD 1995 (Cont'd)

41770 HITT, HANK
HUGHES, CHARLES
JACKSON, ED
JORDAN, KENNETH
JUMP, KEITH
KEENE, MARIE
KEICH, DENNIS
KLUGE, KRISTI
KRIEGER, LENA A
LANAVE, RICHARD S
LERMA, KRISTIE
LEY, JAMES
LICITRA, M J
LONGACRE, SCOTT
LOPEZ, JOSEPH
MACLAREN, TERESA
MANNER, M
MARKS, REGINA
MARTIN, SCOTT
MCCLOSKEY, STEPHEN
MCFEELY, D
MENDOZA, HILARIO
MESSERSMITH, J
MICHAELSON, ROBERT
MILLER, C
MIRACLE, ERIC
MITCHELL, LINDEN
MULLINS, ANDREW
MURPHY, M
NELSON, JEFF
NEWMAN, JEFF S
NICHOL, ANNA
NYSTROM, JACQUI
ORLAUSKI, BRIAN
ORNELAS, PHILLIP
PATTERSON, THOMAS E
PENA, R
PFLUM, TIM
PLUNKETT, KIM
POWELL, CHAS
PRICE, ALLISON
RAINES, ZANA C
REDA, MICHAEL
SAYRE, LAURIE
SCHAAP, JOHN
SCHNEIDER, DAVID
SCHROEDER, KEVIN
SEBASTIAN, PASCUAL
SHEETS, BETTI
SHOAF, A E III

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MARGARITA RD 1995 (Cont'd)

41770 SINFIELD, COLIN
SNOW, DERRICK
SPARKS, DEANNA
SPAULDING, TRENT
STASHIK, KENNETH
STOVER, DENNIS P
STUWE, JEFF
SYCAMORE TERRACE
SYCAMORE, TERRACE
TORNBOM, JON
TUCKER, P
TUPAJ, ALAN
VANGAALE, ELLIE
VILLARREAL, CHAD
WEBBER, JOSEPH
WILLIAMS, JEFFREY
WILSON, TOM
YU, YOUNG
ZHANG, Z

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SOLANA WAY 1995

29605 ACACIA PARK RESORT APARTMENTS
ADAMS, MARK
ALLEN, ROCKY
ALLRED, JOE B
ANDERSON, DAVID
ANDERSON, R
ANDERSON, TIMOTHY W
ARBOGAST, TOMI
ARVISU, ALLEN
ATKINS, RAY
AYASSE, LORIE
BAIRD, MUSETTE
BARIRING, ROMAN
BASORE, ROBYN
BELLO, LINDA
BENAUM, MICHAEL
BERLINGER, JENNY
BOLTON, ADAM
BOODY, DENISE
BOS, CARA
BOWMAN, ROBERT
BRADBURY, TERRI
BUCHANAN, G
BUSH, K
BUZBEE, LES
CAMERON, GRANT
CARLSON, ELAINE L
CARY, JOHN S
CLARK, GLORIA J
COCHRANE, WILLIAM A
CONNOLLY, SEAN P
COTTON, CARMELA
CROOKS, JOHN
DURAN, RICHARD J
EARWOOD, LARRY
ELLIOTT, SANDRA
ERVIN, DENNIS
ESTES, BRIAN
EVILSIZER, BARBARA
FAIRCHILD, STEPH
FLORES, R
FORSTER, J
FRANKEL, HOWARD J
FYFE, M A
GALLAGHER, DENNIS G
GEDRITIES, SCOTT
GILHAM, DANIEL
GRACE, SHERREE L
GRADILLAS, D
GRAHAM, DON

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SOLANA WAY 1995 (Cont'd)

29605 GRAHAM, ROBERT
GRAY, NELLIE
GROOVER, FRED
HAFER, TOM
HALE, SAMUEL
HALLE, DAVE
HAPROFF, WILLIAM N
HAUGE, ROBIN P
HAWSEY, BRIAN
HEARD, AIMEE
HENNELL, BILL
HOBBS, JOHN
HOLLY, KEISHA V
HOPKINS, SAND
HUNT, FAY
ICOCHEA, GEORGE
JACKSON, HARLIN
JACOBE, MICHAEL
JEFFREY, PAUL
JEFSEN, JOHN
JENKINS, DORIS
JIMENEZ, CYNTHIA
JOHNSON, HUGH
KANG, HENRY S
KELLOGG, C
KHATTAT, SAMY
KRUSH, THOMAS
LAND, DAWN
LANDER, DAVID A
LARSON, BRIAN
LASKE, HEIDI C
LEABOW, ISHAM
LEARY, KEVIN
LITTLE, GREG
LOFTS, SHERRY
LONDON, P D
LUCKER, GREG
MANOR, C
MARTINEZ, MIKE
MARUSKA, JOHN H
MASON, R J
MCALPINE, RICHARD
MCCULLOUGH, DAVID
MERIWEATHER, C
METELSKI, GARY D
MEYER, JUDI
MINNE, ALBERT T
MOCNY, THOMAS
MONTESDEOCA, LORENA
MOORE, BRENT

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SOLANA WAY 1995 (Cont'd)

29605 MUNOZ, ZELDA
NICHOLS, WILLIAM S
NICKELS, SCOTT
OBRIEN, SHIRLEY M
OKAZAKI, CHRIS
OLIVA, PHILIP
PALHEGYI, MICHAEL
PAX, TONI
PAYNE, DONALD F
PELZEL, J
PEOPLES, CARYN
PEREZ, GREGORY R
PHILLIPS, T
PHIPPS, RONALD
RAMIREZ, CECILIA
REARDON, PAUL
RICO, AARON X
ROBBINS, MEL
RUANO, R
SAGRAVES, JUANITA
SALAS, JULIE
SANTOS, ANNETTE
SAWYER, GENE
SCHANZLE, MICHAEL
SCHNEIDER, ALAN
SHAW, BRIAN B
SHELDRAKE, SEAN
SMITH, TASHA D
SODERBERG, SVEN
SOWARDS, GREG
SPAARGAREN, KIIM
SPRING, ROBERT
STRICKLER, ROBERT
STUCKMEYER, JIM
SUNDERLIN, JANICE
TATLOW, LAURA
TENNIS TECH
THOMAS, TOM
TIMNONS, BRIAN
TOPETE, ANGELA
TURALBA, RODOLFO A
TURNER, JAMES
ULLRICH, SHANAN
VASVARY, BILL
VIZGIRDA, K
WADE, LISA
WEDEREIT, JACK G
WESELY, JEWELL E
WHIPPLE, C
WHITFIELD, JOHN D

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

SOLANA WAY 1995 (Cont'd)

29605 WILLIAMS, ROY
WILSON, DAVID
WISE, DEENA
ZACHARY, JEFFREY

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MARGARITA RD 1992

41770 BARSSALI, RABIAH
BEIER, PAUL
BLACKMAN, ALBERT JR
BURDETTE, C J
BURTON, KEVIN
CARRASCO, ENRIQUE
CLEMONS, HARLEY
CONCEMI, ALFRED
COOPER, WILLIAM
CRUZ, EDGAR
DINORMA, PAULA
DRAKE, DAVID
FAVAZZA, C
FINDLAY, J
FULTON, LYNN
GARDIPEE, JOHN
GEILING, E
GIBSON, KELLY
GOLDSMITH, DENNIS
HALMAGEAN, E
HARRISON, TIMOTHY
HERSEY, VONICE
HOOVER, EUNICE
HOWARD, DAN
HUNTINGTON, THOMAS
JOHNSON, BRIAN E
JONES, SCOTT
MARSH, ROBERT
MARTIN, SCOTT
MAY, H A
MCNEIL, DEBRA
MEEKER, D
MELLENDORF, DAVID
MIRACLE, ERIC
MOHRLAND, M
MUELLA, RANDY
ORT, WENDY
OSHITA, GILBERT
PERETTI, MIKE
PFLUM, TIM
PIFER, E L
RAMOS, ELVIN L
RASMUSSEN, MICHAEL
RATKUS, PAMELA
REDA, MICHAEL
SCHNEIDER, DAVID
SHUMAKER, C
STAM, MICHAEL
STEPHENS, JEFFERY
SYCAMORE, TERRACE

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

MARGARITA RD 1992 (Cont'd)

41770 THOMPSON, BRIAN H
WILSON, SHEILA
41773 BAUM, J

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

SOLANA WAY 1992

29605 ADAMS, MARK
AGNEW, HEIDI
ALLEN, ROCKY
ALLRED, JOE B
ANDERSON, D
ARNONOVITHC, AVERY
BENTLEY, LORI
BOLTON, C
BOULAN, JOHN
BUTTREY, TIMOTHY
BUZBEE, LES
CHRISTENSEN, MARK W
CONNOLLY, STEPHEN T
COON, LADDIE
COTTON, CARMELA
CRANNEY, K
DANIELS, SOPHIA
DOEBLER, L
DOOLEY, C V
DUNN, DEBBIE
EARL, M J
ESTACID, EDWARD B
FINKLER, R
FLANERY, TIM
FORD, JEFFREY
FOSTER, JEFFREY S
GARAN, DAN
GARRISON, JOHN
GEDRITIES, SCOTT
HAHN, JEFF
HALL, MURIEL
HAPROFF, WILLIAM N
HARN, N
HERRERA, DORIE
JORDAN, JEFF
KHATKAR, GITA
KOATES, K
KRUSH, THOMAS
LAVECK, A
LESTRANGE, PAUL
LINDER, BRUCE
LOPEZ, RUSEO
MARINOFF, PHILLIP
MARKIE, D
MATZ, KERRI
MEDINA, N
METELSKI, GARY D
MILLER, BRUCE
MILLER, GARY D
MINNE, ALBERT T

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

SOLANA WAY 1992 (Cont'd)

29605	MORRIS, DEREK
	MYERS, KEITH
	OROZCO, F M
	ORZEHOWSKI, BERNARD
	PAYNE, DONALD F
	PEACOCK, ARTHUR C
	PEDERSON, M
	PETERSON, ROBERT
	PHIPPS, RONALD
	PRADO, C
	RITCHIE, GREG
	STAPLEY, MIKE
	STRICKLER, ROBERT
	STUCKMEYER, JIM
	TARRANT, LARRY
	TAYLOR, LARRY
	TENNIS TECH
	TOURVILLE, DENICE
	VASILESCU, VIOREL
	VERMILLION, SPENCER
	VIOLETTE, MICHAEL
	VIZGIRDA, K
	WARSCHAUER, JANIS
	WATSON, DANNY
	WHARTON, K
	WIER, J
	WIGGS, MICHAEL
	WILSON, DAVID
	WILSON, RENEE
296052	KNAPP, DAVE
	LEE, ROBERT
296055	POND, TIMOTHY
296058	MANN, WALTER
2960516	MEREL, JOSHUA

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

MARGARITA RD 1985

MARGARITA RD 92390
TEMECULA

RANCHO CALIF AREA

31555	SUKUT LLOYD CO	676-3585	+5
43939	LOVE RALPH STUDIO	676-5433	3
43580	ABERNATHY GEO WM	676-2424	+5
	GWAR ENTERPRISES	676-2424	1
44060	XXXX	00	
44099	SHANNON GREG	676-5470	3
44155	LOWE CLAY E	676-5629	+5
44159	KILE GOE J	676-5474	4

* 3 BUS 5 RES 3 NEW

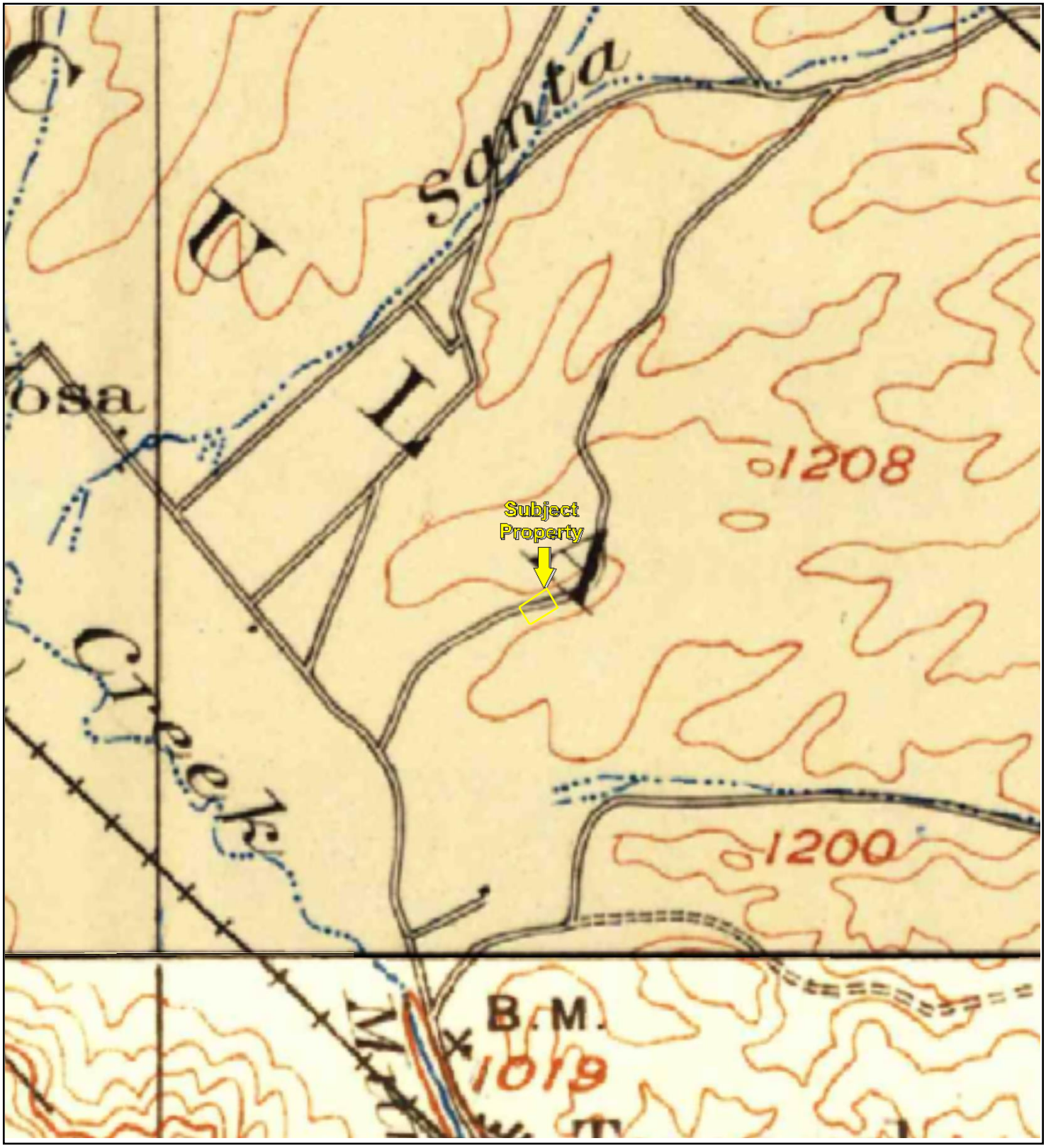
Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

MARGARITA RD 1981

MARGARITA RD 92390
TEMECULA

43980	ABERNATHY G W	676-2424+1
	GWAR ENTERPRISES	676-2424+1
	PACIFIC PIPELINE	676-2424+1
44060	BOYSEN JULIET	676-2817 +1
44159	MAZEIKAS FRANK	676-6639 +1

* 3 BUS 2 RES 5 NEW

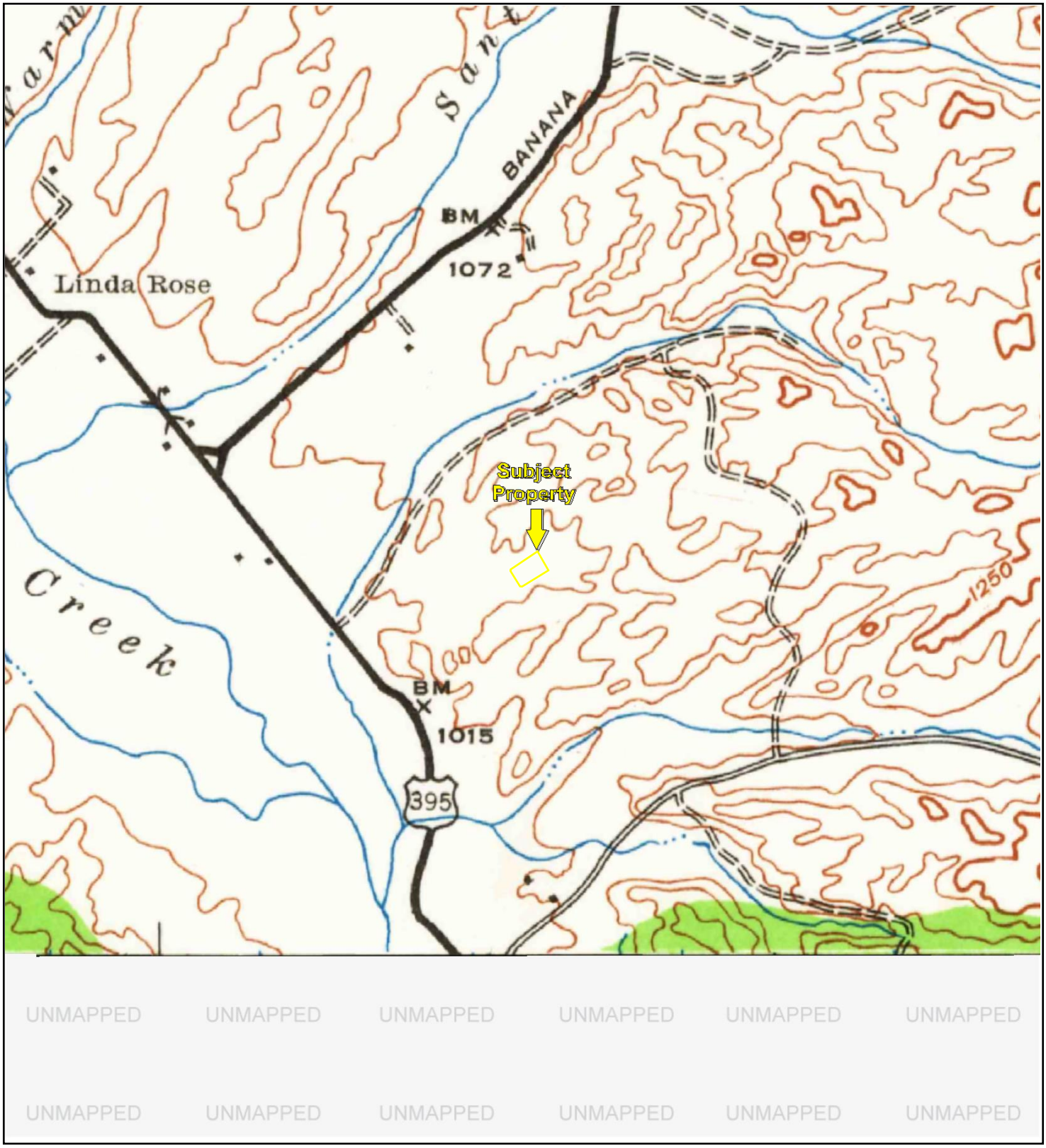


TP, Elsinore, 1901, 30-minute
S, San Luis Rey, 1901, 30-minute

0 Miles 0.25 0.5 1 1.5

N

Key: Subject Property



TP, Murrieta, 1942, 15-minute

0 Miles 0.25 0.5 1 1.5

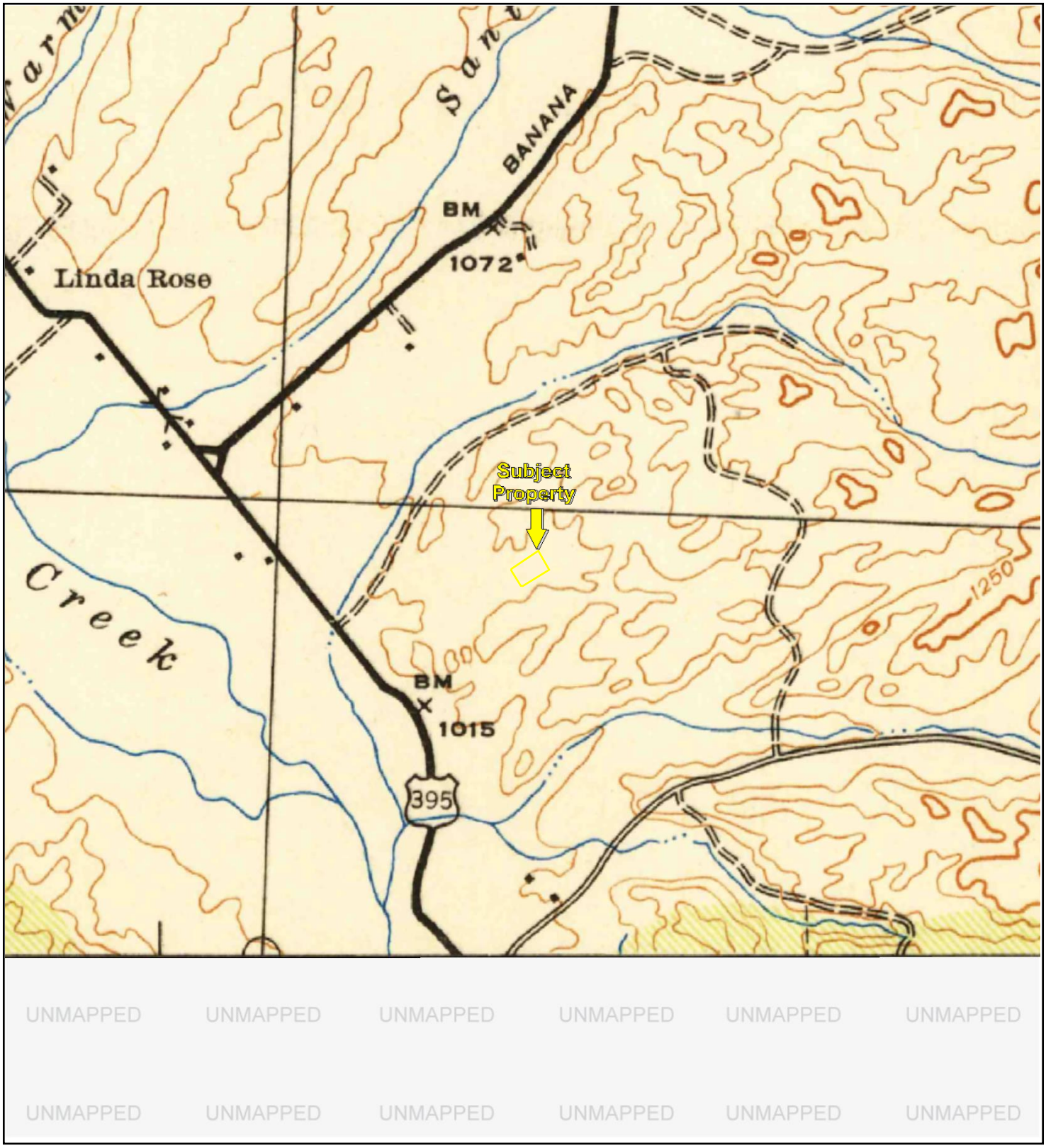
N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 19-248531.1

PARTNER

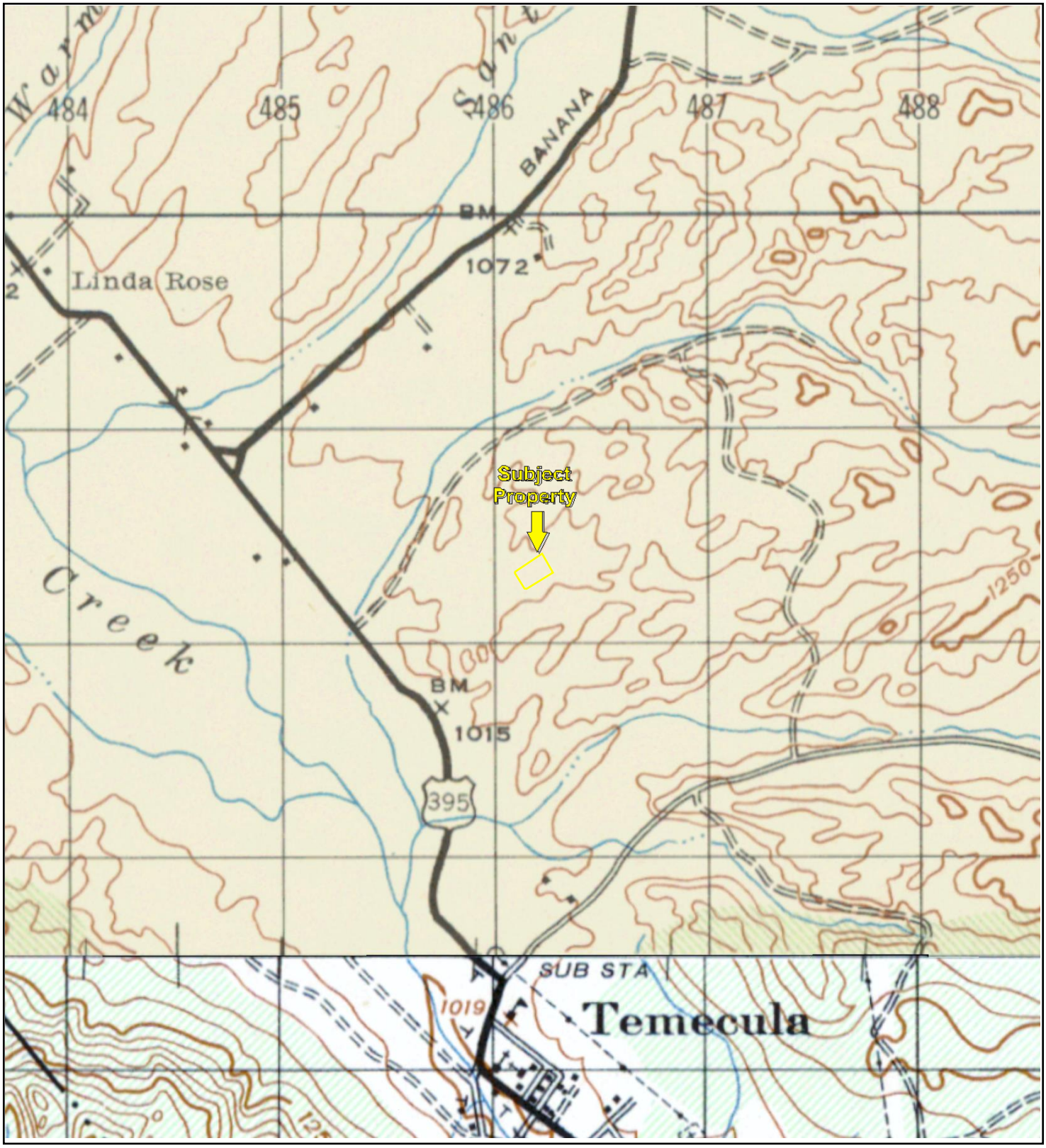


TP, Murrieta, 1943, 15-minute

0 Miles 0.25 0.5 1 1.5

N

Key: Subject Property



TP, MURRIETA, 1947, 15-minute
S, TEMECULA, 1947, 15-minute

0 Miles 0.25 0.5 1 1.5

N

Key: Subject Property

TP, Murrieta, 1953, 7.5-minute
NE, Bachelor Mtn., 1953, 7.5-minute
SE, Pechanga, 1950, 7.5-minute
S, Temecula, 1950, 7.5-minute

0 Miles 0.25 0.5 1 1.5

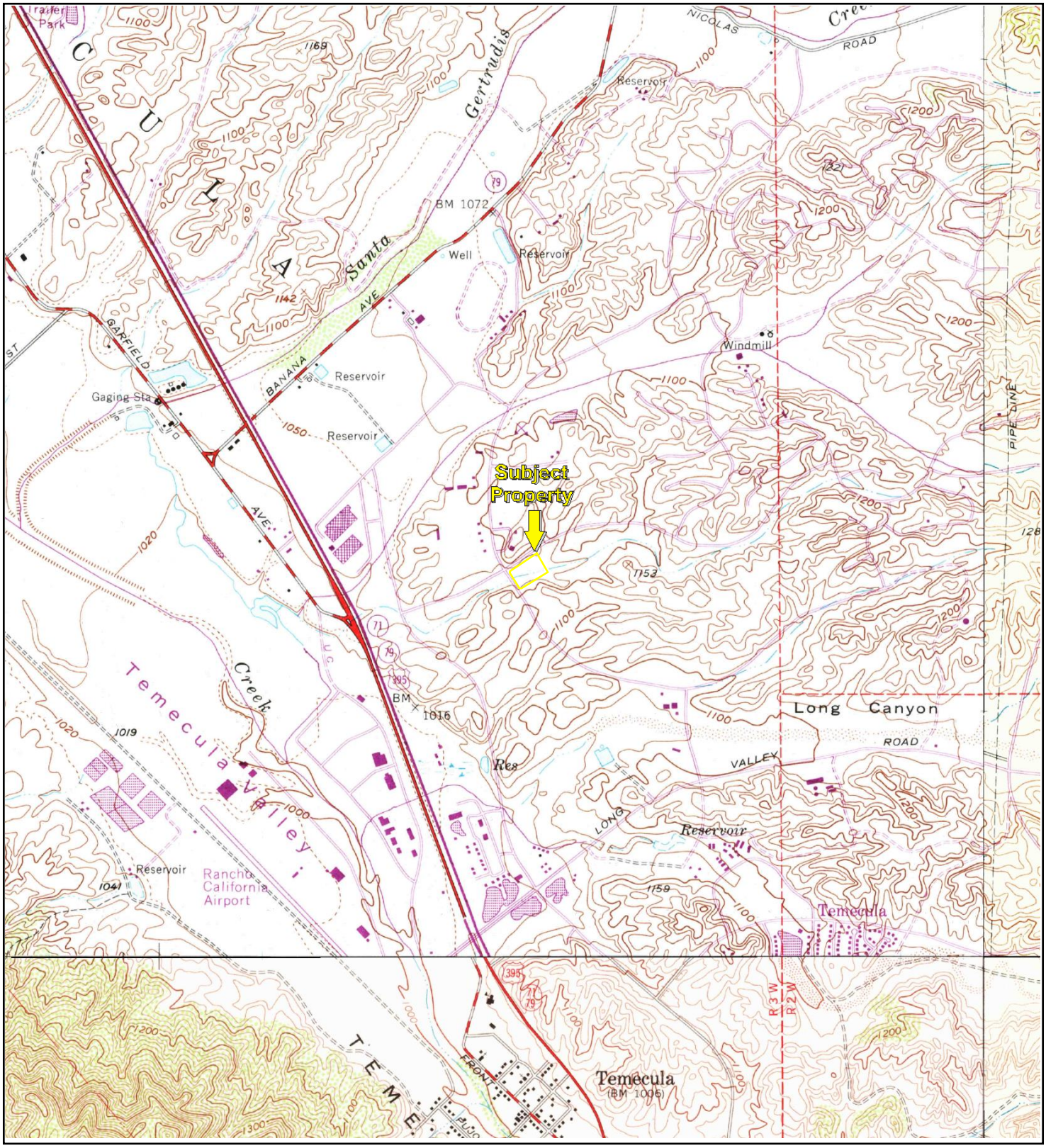
N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 19-248531.1

PARTNER



TP, Murrieta, 1973, 7.5-minute
NE, Bachelor Mtn., 1973, 7.5-minute
SE, Pechanga, 1968, 7.5-minute
S, Temecula, 1968, 7.5-minute
NE, Bachelor Mtn, 1973, 7.5-minute

0 Miles 0.25 0.5 1 1.5

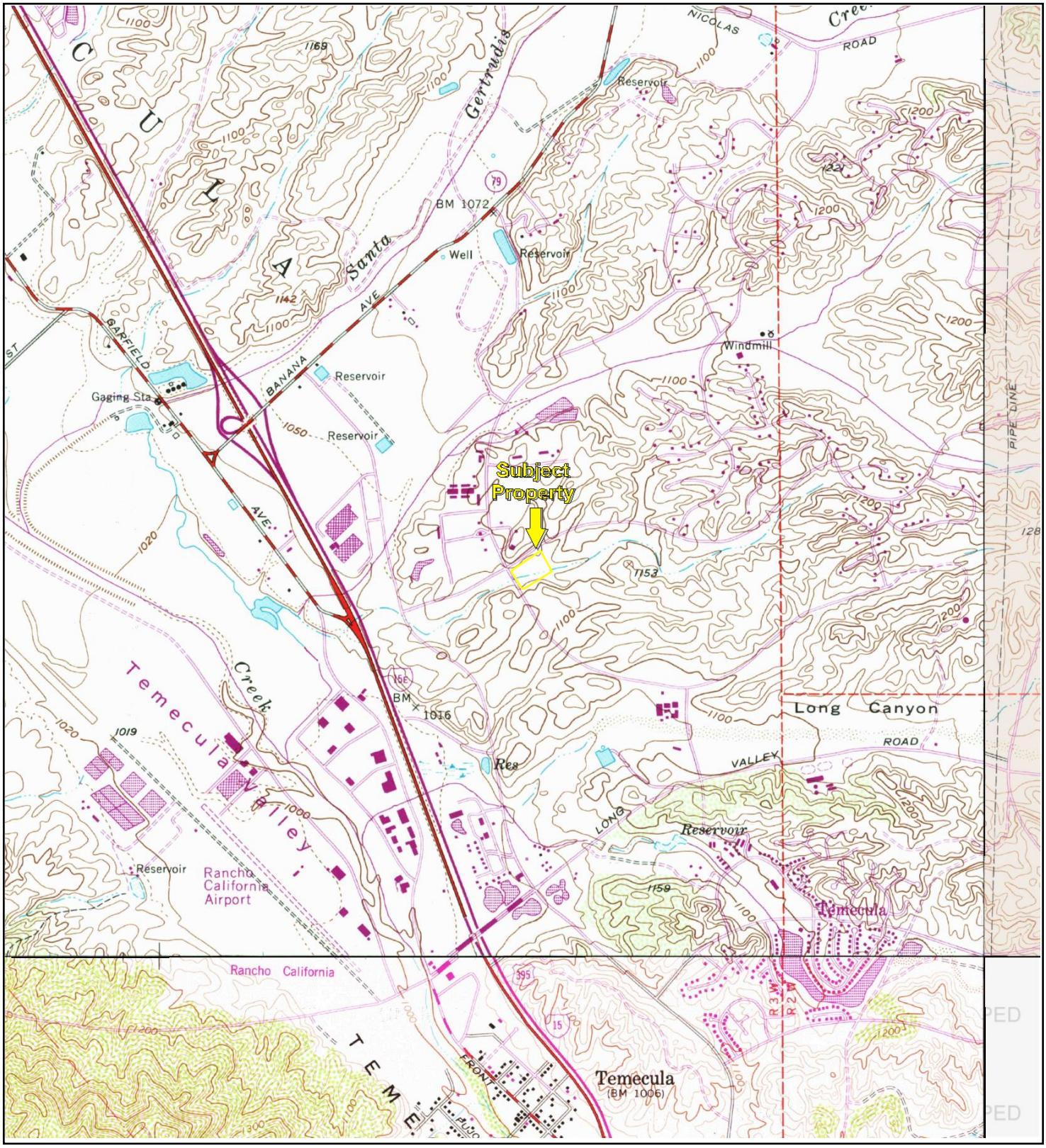
N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 19-248531.1

PARTNER



TP, Murrieta, 1979, 7.5-minute
NE, Bachelor Mtn, 1978, 7.5-minute
S, Temecula, 1975, 7.5-minute

0 Miles 0.25 0.5 1 1.5

N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 19-248531.1

PARTNER

County of Riverside

DEPARTMENT OF ENVIRONMENTAL HEALTH

www.rivcoeh.org

Environmental Protection & Oversight Division
Hazardous Materials Management Branch

REQUEST FOR RECORDS

Requests for review of records are processed on a first come, first serve basis and the processing time is approximately 2-4 weeks. As required by California Public Records Act Section 6250 et seq., a response will be given within ten (10) business days to confirm receipt of your request.

Pursuant to California Government Code, Section 6254 (f), records of pending investigations and informant's names, addresses, and telephone numbers, will not be released.

For access to electronic records available online, visit the Public Information section at www.rivcoeh.org for more details.

REQUESTOR INFORMATION		
NAME: Jared Eudell	DATE OF REQUEST: XXXXXX	
BUSINESS NAME (IF ANY): Partner Engineering and Science		
RETURN LEGAL MAILING ADDRESS: 11839 Sorrento Valley Road		
CITY: San Diego	STATE: CA	ZIP: 92121
PHONE: 619-292-0549		

The following information is required. **List each street address separately.**

	SITE STREET ADDRESS (NO APNs)	CITY
1.		
2.		
3.		
4.		
5.		
6.		
7.		

Requests must be made in writing and submitted by mail, email, or in person to the following office:

4065 County Circle Drive, Room 104, Riverside, CA 92503
Phone: (951) 358-5055
Email: DEHRecordsMgmt@rivco.org
Mailing Address: P.O. Box 7909, Riverside, CA 92513-7909

For our office locations call us at (888) 722-4234 or visit our website at www.rivcoeh.org

GEOTRACKER

margarita and solana, temecula, ca

Map Address

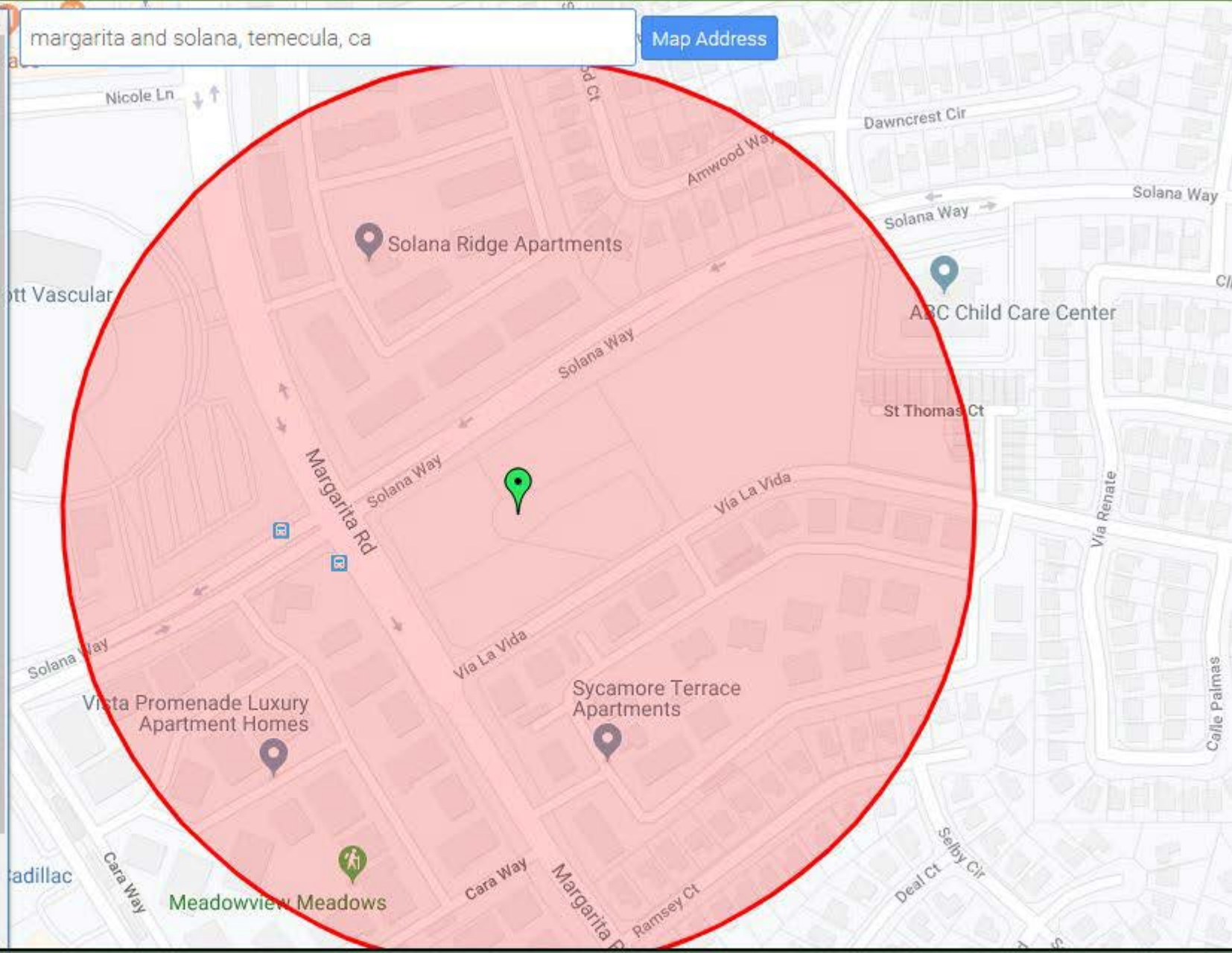
Sites and Facilities - INFO

Cleanup Sites

- LUST Cleanup Sites
- Cleanup Program Sites
- Military Cleanup Sites
- DTSC Cleanup Sites

Permitted Facilities

- Waste Discharge Requirements (WDR) Sites
- Permitted USTs - INFO
- DTSC Hazardous Waste Sites
- Land Disposal Sites - SELECT NONE
  - Burn Dump
  - Compost Facility
  - Illegal Disposal Site
  - Other
  - Pre-Title 27 - CAI
  - Title 27 - Land Treatment Unit
  - Title 27 - Mining Unit
  - Title 27 - Municipal Solid Waste Landfill
  - Title 27 - Non-Municipal Solid Waste Landfill
  - Title 27 - Surface Impoundment
  - Title 27 - Waste Pile
  - Unknown
- Irrigated Lands Regulatory Program Sites
- Oil / Gas Sites



SITES FOUND IN SEARCH RADIUS — 0 SITES LISTED

SITE NAME	GLOBAL ID	FAC ID	STATUS	ADDRESS

ENVIROSTOR

margarita and solana, temecula, ca

Map Address

Sites and Facilities

Cleanup Sites

- Federal Superfund
- State Response
- Voluntary Cleanup
- School Cleanup
- Evaluation
- School Investigation
- Military Evaluation
- Tiered Permit
- Corrective Action

STATUS

All Statuses

Permitted Sites

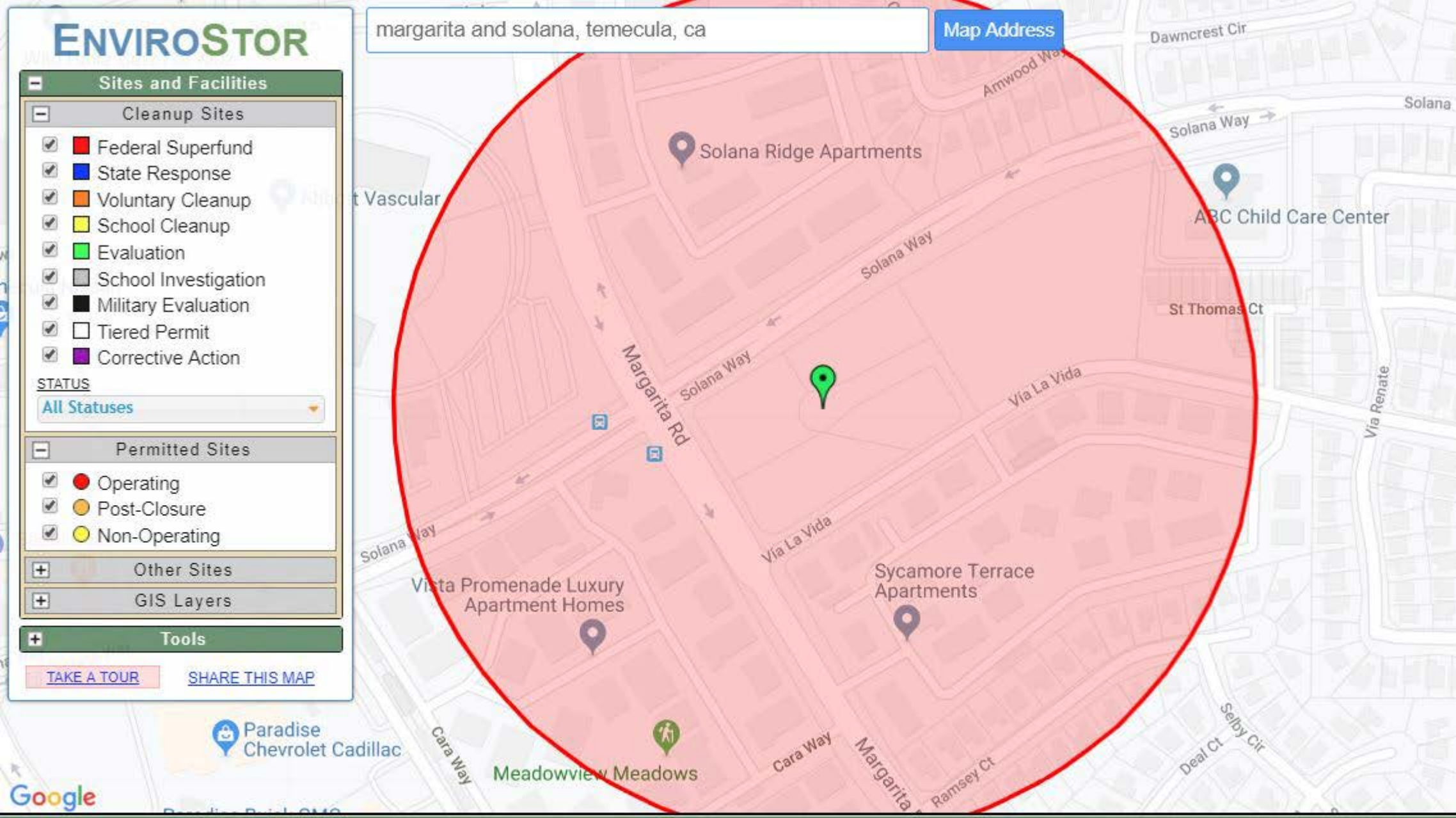
- Operating
- Post-Closure
- Non-Operating

Other Sites

GIS Layers

Tools

TAKE A TOUR | SHARE THIS MAP



SITES FOUND IN SEARCH RADIUS — 0 SITES LISTED

PROJECT NAME	STATUS	PROJECT TYPE	ADDRESS

South Coast AQMD

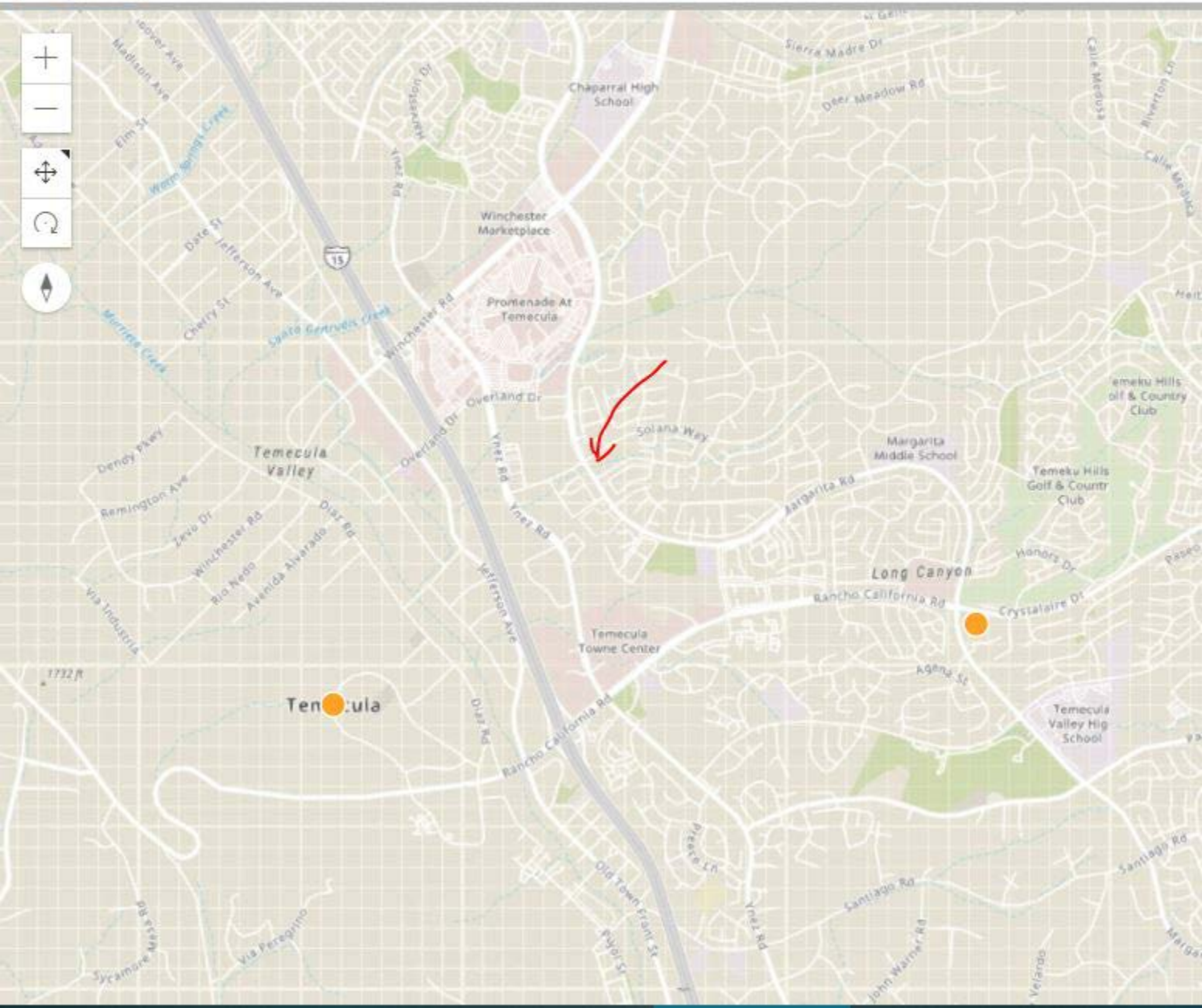
Facility INformation Detail (F.I.N.D.)

Select Search Type

Find a Facility

Name

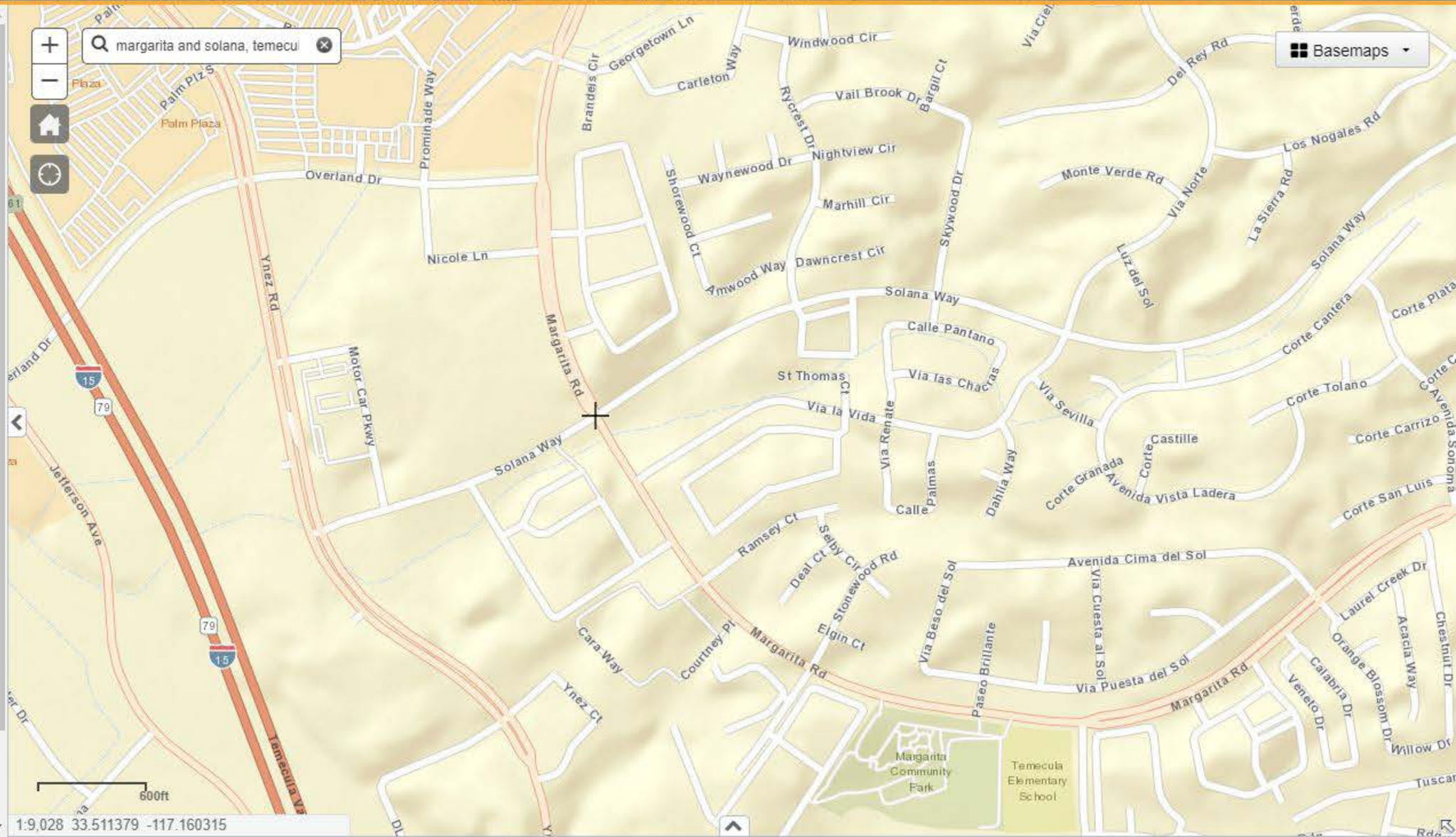
Street



Well Finder
DOGGR GIS

More Info | Help | ©

- Well Status and Well Type Filter
- Search
- Zoom to Field
- Measurement
- Layers
  - Notice and Permit
  - Well
    - Well
    - Geothermal Well
    - EPA Well for Aquifer Exemption Review
  - Facility
    - Tank
    - Pit/Sump
    - Setting
    - Facility Boundary (non-wellstar)
  - Underground Gas Storage
  - Well Stimulation
  - TR26 Onshore Seep Count
  - Oil/Gas Field
  - DOGGR District
  - Public Land Survey System
  - City



Eugenio, Brittney

From: City of Temecula Public Records Center <temeculaca@mycusthelp.net>
Sent: Tuesday, June 4, 2019 9:17 AM
To: Eudell, Jared
Subject: [City of Temecula] Public Records Center Update - Jared Eudell :: W004495-053119

--- Please respond above this line ---

June 04, 2019

Re: Public Records Act Request Dated May 31, 2019

Dear Jared Eudell,

The City is in receipt of your Public Records Act Request dated May 31, 2019, for documents pertaining to:

"*My company is assessing four currently vacant parcels on the southeast corner of Solana Way and Margarita Road. I do not believe there are addresses associated with these lots. The APNs are: 921-330-025, -026, -052, and -053.*

I am requesting the following for any current or historical activity:
• Building Permits and Certificates of Occupancy;
• Documents, including Fire Department records, pertaining to the installation, inspection, closure or remediation of underground storage tanks, above-ground storage tanks, hazardous materials, wells or septic systems;

Electronic files are preferable to paper copies. If this request will require an on-site review or has any associated costs, please advise as soon as possible so I can schedule an appointment and/or obtain authorization for payment."

In accordance with Government Code Sections 6253(c) and 6255(b), this serves as the City's response to your request.

The City has conducted a thorough review of its files and does not have any documents responsive to your request.

Please feel free to contact our office if you have any further needs or questions.

Regards,

City of Temecula | *City Clerk's Office* | *(951) 240-4225*

Click here to access the Public Records Request Center and view your requests.

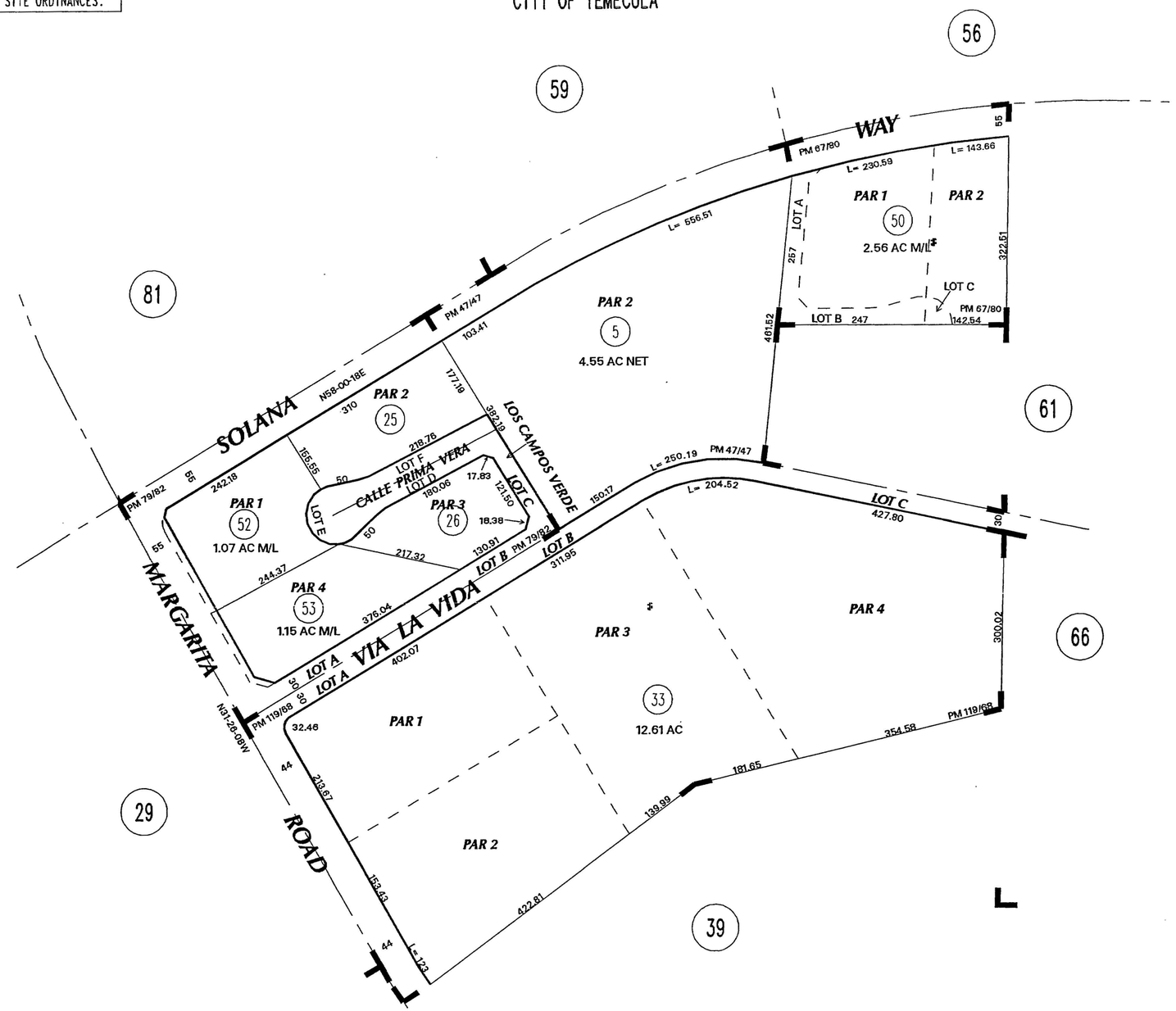
THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA SHOWN. ASSESSOR'S PARCEL MAY NOT COMPLY WITH LOCAL LOT-SPLIT OR BUILDING SITE ORDINANCES.

POR.PROTRACTED SEC. 36 T.7S.,R.3W
CITY OF TEMECULA

T.R.A. 013-004

921-33
921-10

1" = 200'
ANGLE = 0°



DATE	OLD NUMBER	NEW NUMBER
06/81	1	24,ST.
06/81	2	25,ST.
06/81	3	26,ST.
DATE	OLD NUMBER	NEW NUMBER
06/81	4	27,ST.
01/84	6	28-31
12/86	28-31	32
03/87	32	33,ST.
04/88	13	34
04/88	14	35
04/88	15	36
04/88	16	37
05/88	23	44,45
05/88	12	42,43
DATE	OLD NUMBER	NEW NUMBER
05/88	18	40,41
05/88	35	46,47
05/88	36	38,39
05/88	11,34,39,41,	48
05/88	43,45,47	48
05/88	48	PG.61
05/88	46	611-016
08/88	17,37,38,	49
08/88	40,42	49
08/88	49	PG.61
DATE	OLD NUMBER	NEW NUMBER
08/88	44	PG.66
08/88	19	661-26
08/88	20	661-29
08/88	22	661-27
08/88	28	661-21
02/89	7,8	50
01/03	9,10	51
01/03	51	PG.61
01/04	24	52,ST
01/04	27	53,ST

DATA: MERG. 278
MERG. 526

PM 47/47 PARCEL MAP 10140
PM 67/80 PARCEL MAP 13271
PM 79/82 PARCEL MAP 13275
PM 119/68-69 PARCEL MAP 18939

Jan 2004

ASSESSOR'S MAP BK921 PG.33
Riverside County, Calif.

Peter Aldana , County Assessor

General Information

Open Map

APN:
921-330-025
Situs Address:

TEMECULA CA 92591
Mailing Address:
48 VIA ALCAMO
SAN CLEMENTE CA 92673
Legal Description:
.98 ACRES NET IN PAR 2 PM 079/082 PM 13275
Use Type:
VACANT
Tax Rate Area: 013-004

Assessment

Year Assd:	2018
Land:	$312,771
Structure(s):	
Other:	
Total Land and Improv:	$312,771
HO Exempt?:	N
Exemption Amt:	

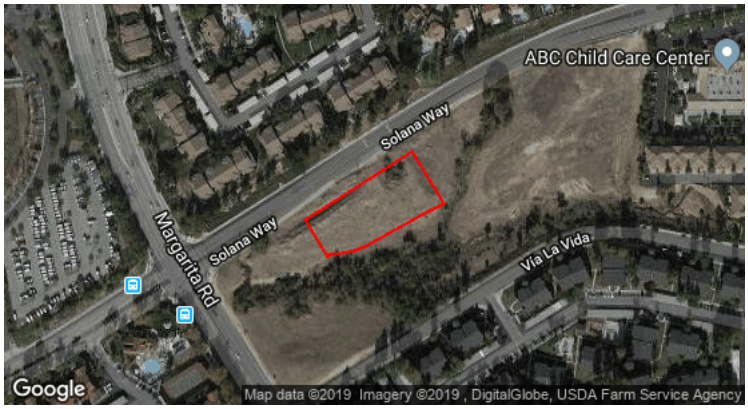
Property Characteristics

Bedrooms:	
Baths (Full):	
Baths (Half):	
Bldg/Liv Area:	
Year Built:	
Lot Acres:	0.980
Lot SqFt:	42,688

Recent Sale History

Recording Date:	01/18/2013
Document #:	0029672
Transfer Amount:	$2,000,000

View More History



**The information provided here is deemed reliable, but is not guaranteed.

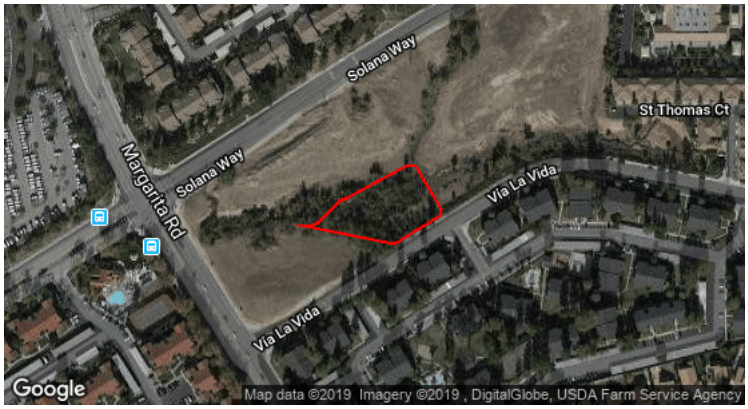
Peter Aldana , County Assessor

General Information

Open Map

APN:
921-330-026
Situs Address:

TEMECULA CA 92591
Mailing Address:
48 VIA ALCAMO
SAN CLEMENTE CA 92673
Legal Description:
.78 ACRES NET IN PAR 3 PM 079/082 PM 13275
Use Type:
VACANT
Tax Rate Area: 013-004



Assessment

Year Assd:	2018
Land:	$8,113
Structure(s):	
Other:	
Total Land and Improv:	$8,113
HO Exempt?:	N
Exemption Amt:	

Property Characteristics

Bedrooms:	
Baths (Full):	
Baths (Half):	
Bldg/Liv Area:	
Year Built:	
Lot Acres:	0.780
Lot SqFt:	33,976

Recent Sale History

Recording Date:	01/18/2013
Document #:	0029672
Transfer Amount:	$2,000,000

View More History

**The information provided here is deemed reliable, but is not guaranteed.

Peter Aldana , County Assessor

General Information

Open Map

APN:
921-330-052
Situs Address:

TEMECULA CA 92591
Mailing Address:
48 VIA ALCAMO
SAN CLEMENTE CA 92673
Legal Description:
1.07 ACRES M/L IN POR PAR 1 PM 079/082 PM 13275
Use Type:
VACANT
Tax Rate Area: 013-004

Assessment

Year Assd:	2018
Land:	$342,531
Structure(s):	
Other:	
Total Land and Improv:	$342,531
HO Exempt?:	N
Exemption Amt:	

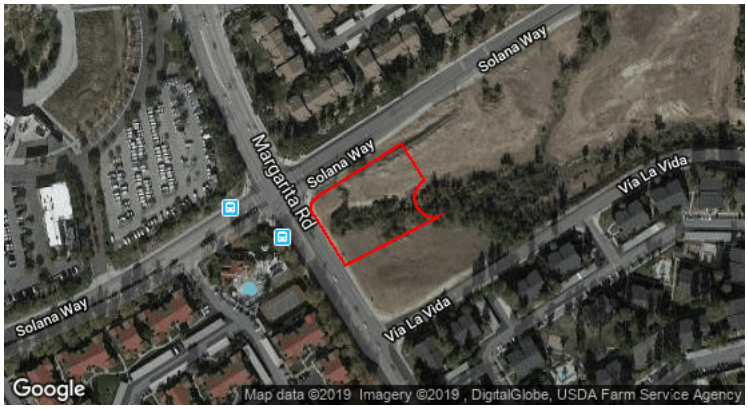
Property Characteristics

Bedrooms:	
Baths (Full):	
Baths (Half):	
Bldg/Liv Area:	
Year Built:	
Lot Acres:	1.070
Lot SqFt:	46,609

Recent Sale History

Recording Date:	01/18/2013
Document #:	0029672
Transfer Amount:	$2,000,000

View More History



**The information provided here is deemed reliable, but is not guaranteed.

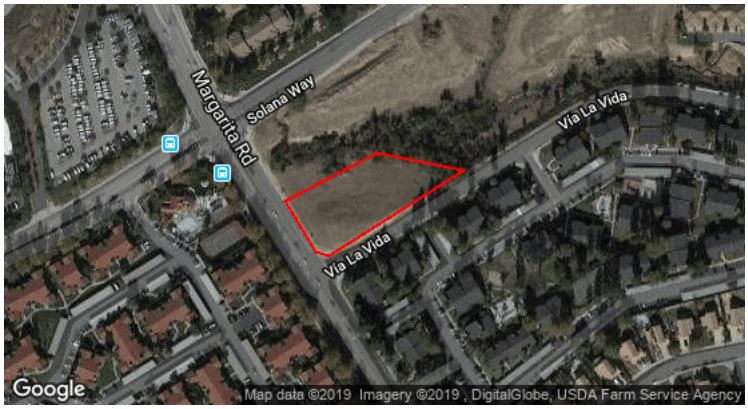
Peter Aldana , County Assessor

General Information

Open Map

APN:
921-330-053
Situs Address:

TEMECULA CA 92591
Mailing Address:
48 VIA ALCAMO
SAN CLEMENTE CA 92673
Legal Description:
1.15 ACRES M/L IN POR PAR 4 PM 079/082 PM 13275
Use Type:
VACANT
Tax Rate Area: 013-004



Assessment

Year Assd:	2018
Land:	$368,182
Structure(s):	
Other:	
Total Land and Improv:	$368,182
HO Exempt?:	N
Exemption Amt:	

Property Characteristics

Bedrooms:	
Baths (Full):	
Baths (Half):	
Bldg/Liv Area:	
Year Built:	
Lot Acres:	1.150
Lot SqFt:	50,094

Recent Sale History

Recording Date:	01/18/2013
Document #:	0029672
Transfer Amount:	$2,000,000

View More History

**The information provided here is deemed reliable, but is not guaranteed.

U.S. Fish and Wildlife Service
National Wetlands Inventory

USFWS Wetlands Map

June 12, 2019

Wetlands

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

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

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

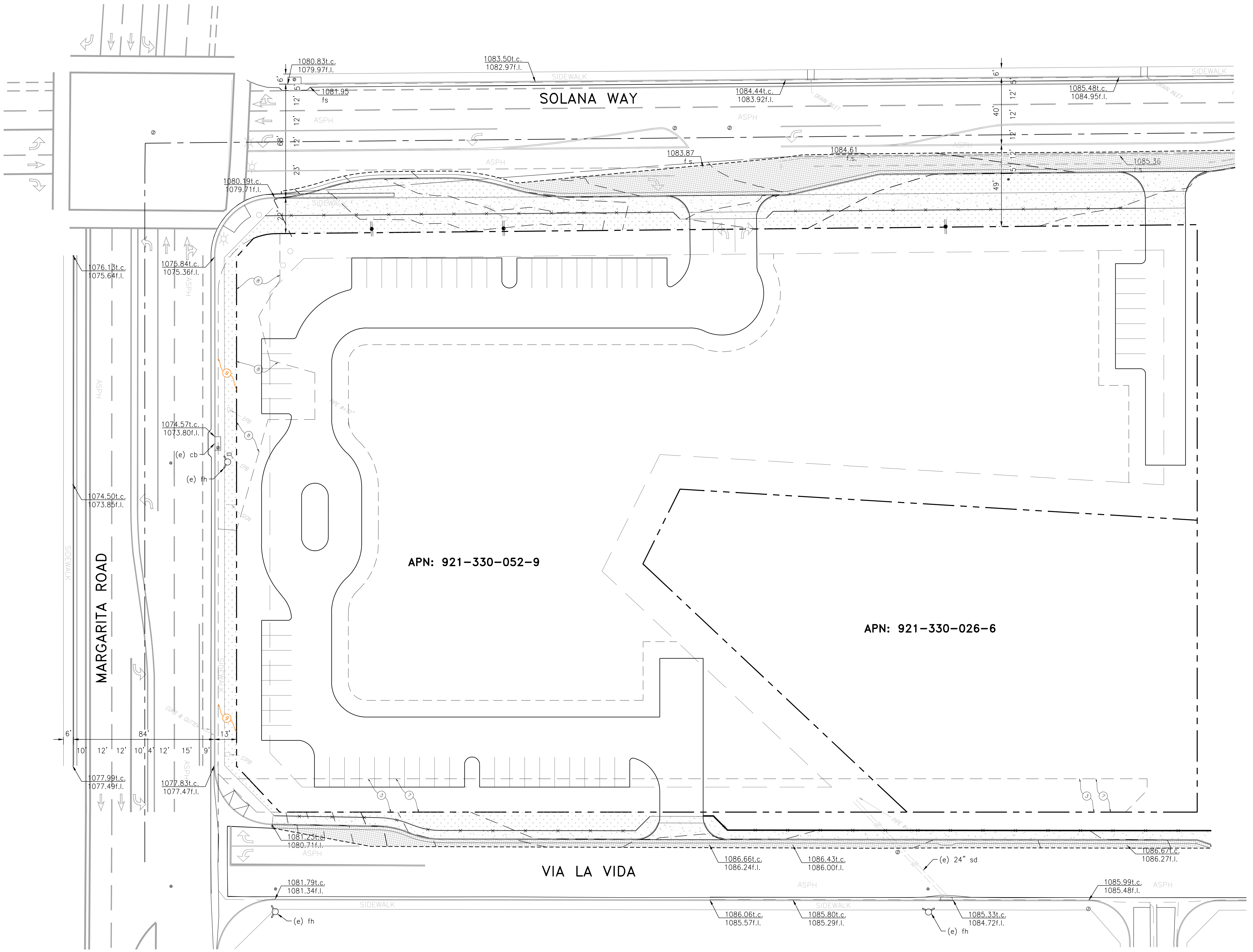
Classification code: R4SBC

System **Riverine (R)** : The Riverine System includes all wetlands and deepwater habitats contained within a channel, with two exceptions: (1) wetlands dominated by trees, shrubs, persistent emergents, emergent mosses, or lichens, and (2) habitats with water containing ocean-derived salts of 0.5 ppt or greater. A channel is an open conduit either naturally or artificially created which periodically or continuously contains moving water, or which forms a connecting link between two bodies of standing water.

Subsystem **Intermitten (4)** : This Subsystem includes channels that contain flowing water only part of the year. When the water is not flowing, it may remain in isolated pools or surface water may be absent.

Class **Streambed (SB)** : Includes all wetlands contained within the Intermittent Subsystem of the Riverine System and all channels of the Estuarine System or of the Tidal Subsystem of the Riverine System that are completely dewatered at low tide.

Water Regime **Seasonally Flooded (C)** : Surface water is present for extended periods especially early in the growing season, but is absent by the end of the growing season in most years. The water table after flooding ceases is variable, extending from saturated to the surface to a water table well below the ground surface.



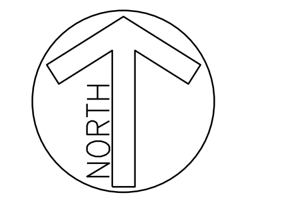
PRIVATE ENGINEER'S NOTICE TO CONTRACTOR:

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS WAS OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBLE FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOW OR NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES TO VERIFY THE LOCATION AND ANY DISCREPANCY BETWEEN THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITION DURING THE COURSE OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR ALSO AGREES TO DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

LEGEND:

— — — —	Property Boundary
- - - -	Easements
—·—·—	Road Centerline
🟦	USACE Jurisdictional Area
🟩	CDFW Jurisdictional Area



0 15 30 60

1 inch = 30 ft.
@ 24x36

CONCEPTUAL ONLY

CONCEPTUAL GRADING PLAN

SOLANA SENIOR ASSISTED LIVING

Prepared By:

DIAMOND WEST INCORPORATED

24005 Ventura Boulevard, Suite 100
Calabasas, California 91302
Voice: (818) 444-1800
Facsimile: (818) 223-9215

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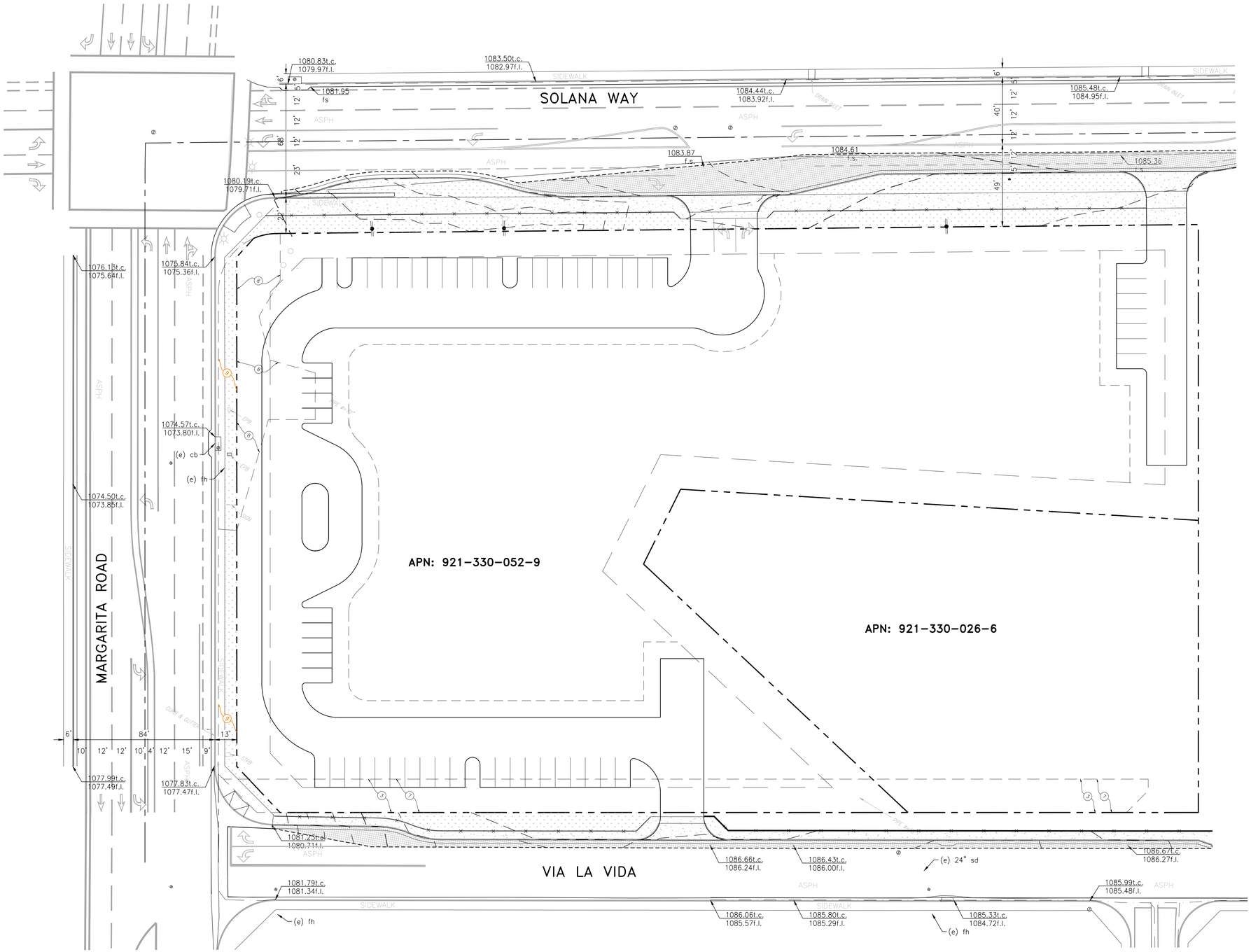
Date:	Sheet 2 of 3

P:\18-1013 - Temecula Senior Living\400-Grading Plan\Civil- Survey\dwg\18-1013-400-PGDN-03.dwg
11/28/18 12:02pm-DANIEL



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LEGEND:

- Property Boundary
- Easements
- Road Centerline
- USACE Jurisdictional Area
- CDFW Jurisdictional Area

CONCEPTUAL ONLY

CONCEPTUAL GRADING PLAN

SOLANA SENIOR ASSISTED LIVING

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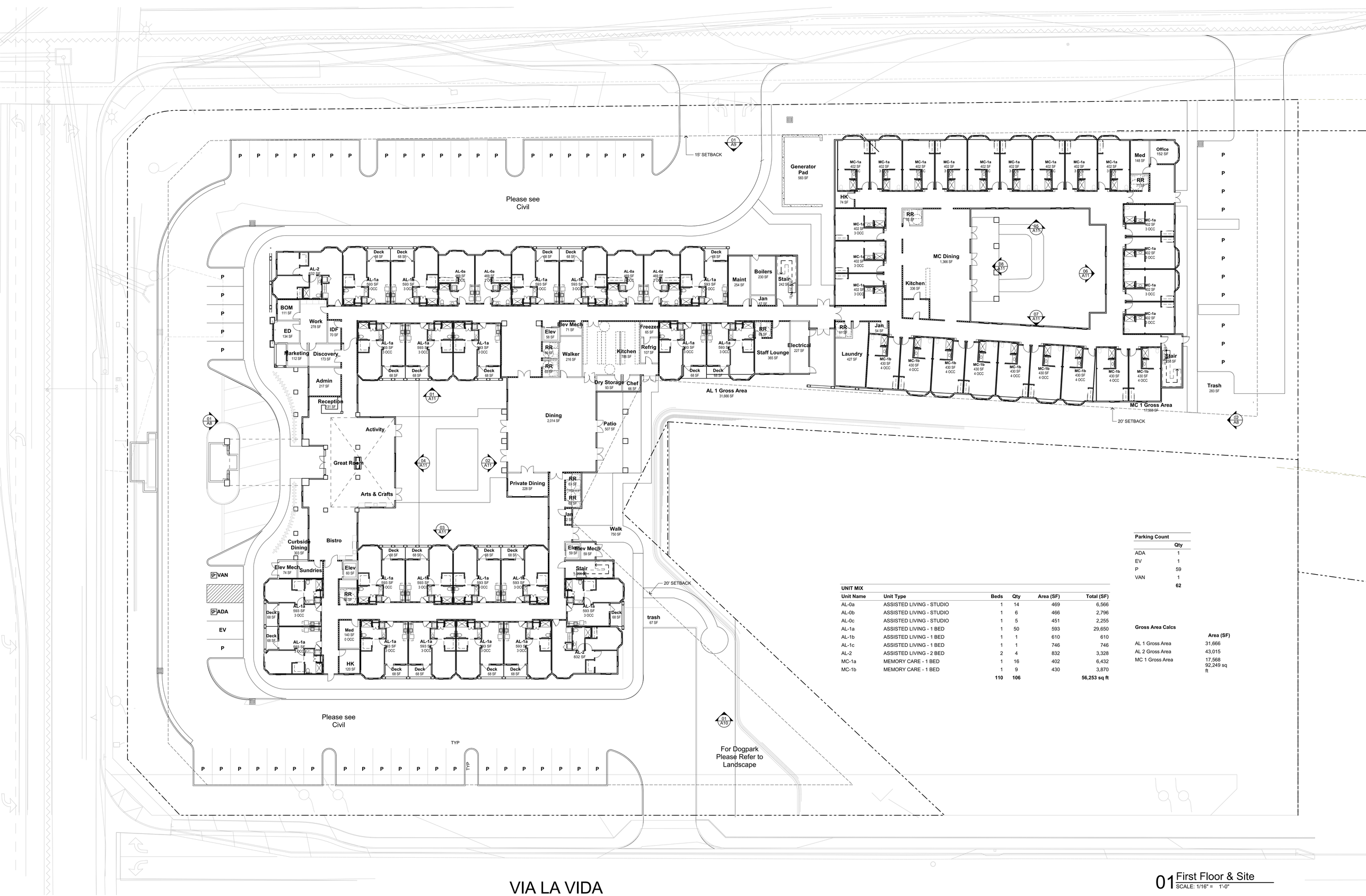
Date:

Sheet 2 of 3



UNIT MIX					
Unit Name	Unit Type	Beds	Qty	Area (SF)	Total (SF)
AL-0a	ASSISTED LIVING - STUDIO	1	14	469	6,566
AL-0b	ASSISTED LIVING - STUDIO	1	6	466	2,796
AL-0c	ASSISTED LIVING - STUDIO	1	5	451	2,255
AL-1a	ASSISTED LIVING - 1 BED	1	50	593	29,650
AL-1b	ASSISTED LIVING - 1 BED	1	1	610	610
AL-1c	ASSISTED LIVING - 1 BED	1	1	746	746
AL-2	ASSISTED LIVING - 2 BED	2	4	832	3,328
MC-1a	MEMORY CARE - 1 BED	1	16	402	6,432
MC-1b	MEMORY CARE - 1 BED	1	9	430	3,870
		110	**106**		**56,253 sq ft**

Parking Count	
	Qty
ADA	1
EV	1
P	59
VAN	1
	62

Gross Area Calcs	
	Area (SF)
AL 1 Gross Area	31,666
AL 2 Gross Area	43,015
MC 1 Gross Area	17,568
	92,249 sq ft

VIA LA VIDA

01 First Floor & Site
SCALE: 1/16" = 1'-0"

IRWIN PARTNERS ARCHITECTS
245 Fischer Avenue, Suite B-2 Costa Mesa CA 92626
(714) 557 2448 www.ipaoc.com
ARCHITECTURE PLANNING CONSULTING

Temecula Assisted Living
Griffin Fine Living
APN: 921-330-052-9
Temecula, CA 92591

First Floor Overall and Site
A1

PROJECT NO: 18013
PLOT DATE: 5/29/2019
18013 Temecula ALMC-SD.pln

APPENDIX C: REGULATORY DATABASE REPORT

PARTNER

Temecula ALMC
SE Corner of Margarita Road and Solana Way
TEMECULA, CA 92591

Inquiry Number: 5666141.2s
May 29, 2019

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

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

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

SE CORNER OF MARGARITA ROAD AND SOLANA WAY
TEMECULA, CA 92591

COORDINATES

Latitude (North):	33.5162390 - 33˚ 30' 58.46''
Longitude (West):	117.1491670 - 117˚ 8' 57.00''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	486146.8
UTM Y (Meters):	3708336.8
Elevation:	1070 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5641304 MURRIETA, CA
Version Date:	2012
South Map:	5640254 TEMECULA, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140530
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
SE CORNER OF MARGARITA ROAD AND SOLANA WAY
TEMECULA, CA 92591

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	ABBOTT CARDIOVASCULA	41888 MOTORCAR PKWY	CERS HAZ WASTE, CERS	Higher	1000, 0.189, WNW
A2	ABBOTT CARDIOVASCULA	41888 MOTOR CAR PARK	RCRA-SQG, HAZNET	Higher	1000, 0.189, WNW
3	YNEZ SHELL	26680 YNEZ RD	LUST, CERS HAZ WASTE, CERS TANKS, HAZNET, CERS	Lower	1837, 0.348, WSW
4	AHAM TOR INC	27901 FRONT ST	ENVIROSTOR, SWEEPS UST, CA FID UST	Lower	3264, 0.618, SW
5	BORG-WARNER CORPORAT	27941 FRONT STREET	ENVIROSTOR, LUST, EMI, ENF, HIST CORTESE, CIWQS,...	Lower	3584, 0.679, SW
6	PICHEL INDUSTRIES IN	28007 FRONT ST	LUST, HIST CORTESE, Notify 65, CERS	Lower	4015, 0.760, SSW
7	ARCO #3012	27641 YNEZ RD	LUST, ENF, HIST CORTESE, Notify 65, CIWQS, CERS	Lower	4609, 0.873, South
8	TEMECULA VALLEY PIPE	28074 DEL RIO	Notify 65	Lower	4696, 0.889, SSW
9	FORMER RANCHO CA AIR	27985 DIAZ RD	LUST, HIST CORTESE, Notify 65, CERS	Lower	5133, 0.972, SW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

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

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

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

Federal Delisted NPL site list

Delisted NPL ..... National Priority List Deletions

Federal CERCLIS list

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

Federal CERCLIS NFRAP site list

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

Federal RCRA CORRACTS facilities list

CORRACTS ..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

RCRA-LQG ..... RCRA - Large Quantity Generators
RCRA-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ..... Land Use Control Information System
US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls

EXECUTIVE SUMMARY

Federal ERNS list

ERNS ..... Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ..... State Response Sites

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

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

State and tribal leaking storage tank lists

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land
CPS-SLIC ..... Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST ..... Underground Storage Tank Listing
UST ..... Active UST Facilities
AST ..... Aboveground Petroleum Storage Tank Facilities
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 Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ..... Waste Management Unit Database
SWRCY ..... Recycler Database
HAULERS ..... Registered Waste Tire Haulers Listing
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands
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

SWEEPS UST	SWEEPS UST Listing
HIST UST	Hazardous Substance Storage Container Database
CA FID UST	Facility Inventory Database
CERS TANKS	California Environmental Reporting System (CERS) Tanks

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
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

EXECUTIVE SUMMARY

INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
ECHO	Enforcement & Compliance History Information
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
HAZNET	Facility and Manifest Data
ICE	ICE
HIST CORTESE	Hazardous Waste & Substance Site List
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
UIC	UIC Listing
UIC GEO	UIC GEO (GEOTRACKER)
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
PROJECT	PROJECT (GEOTRACKER)
WDR	Waste Discharge Requirements Listing
CIWQS	California Integrated Water Quality System
CERS	CERS
NON-CASE INFO	NON-CASE INFO (GEOTRACKER)
WIP	Well Investigation Program Case List
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)

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

EXECUTIVE SUMMARY

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

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ABBOTT CARDIOVASCULA EPA ID:: CAR000193946	***41888 MOTOR CAR PARK***	***WNW 1/8 - 1/4 (0.189 mi.)***	***A2***	***12***

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 01/28/2019 has revealed that there are 2 ENVIROSTOR sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
AHAM TOR INC	***27901 FRONT ST***	***SW 1/2 - 1 (0.618 mi.)***	***4***	***54***

Facility Id: 71002656
Status: Inactive - Needs Evaluation

BORG-WARNER CORPORAT	***27941 FRONT STREET***	***SW 1/2 - 1 (0.679 mi.)***	***5***	***55***

Facility Id: 33360037
Status: Refer: RWQCB

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
YNEZ SHELL	***26680 YNEZ RD***	***WSW 1/4 - 1/2 (0.348 mi.)***	***3***	***15***

Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T0606582847

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 04/09/2019 has revealed that there is 1 CERS HAZ WASTE site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ABBOTT CARDIOVASCULA	***41888 MOTORCAR PKWY***	***WNW 1/8 - 1/4 (0.189 mi.)***	***A1***	***8***

Other Ascertainable Records

Notify 65: 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.

A review of the Notify 65 list, as provided by EDR, and dated 03/18/2019 has revealed that there are 4 Notify 65 sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PICHEL INDUSTRIES IN	***28007 FRONT ST***	***SSW 1/2 - 1 (0.760 mi.)***	***6***	***64***
ARCO #3012	***27641 YNEZ RD***	***S 1/2 - 1 (0.873 mi.)***	***7***	***66***

EXECUTIVE SUMMARY

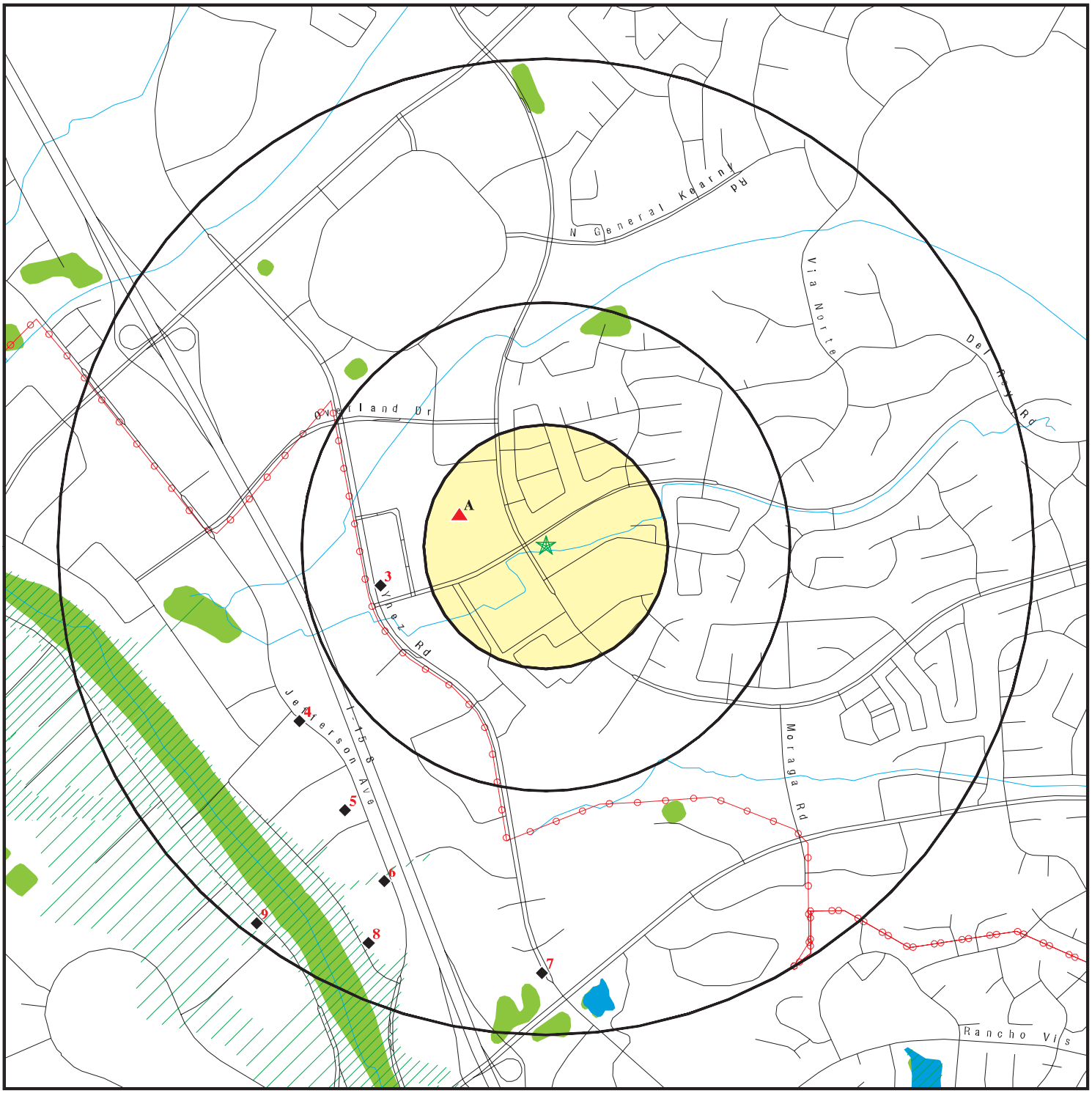
Lower Elevation	Address	Direction / Distance	Map ID	Page
TEMECULA VALLEY PIPE	28074 DEL RIO	SSW 1/2 - 1 (0.889 mi.)	8	90
FORMER RANCHO CA AIR	***27985 DIAZ RD***	***SW 1/2 - 1 (0.972 mi.)***	***9***	***90***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

Site Name	Database(s)
TEMECULA EDUCATION CENTER	ENF, CIWQS
TEMECULA POWER CTR I I	CIWQS
	CDL
EXECUTIVE CLEANERS	DRYCLEANERS

OVERVIEW MAP - 5666141.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

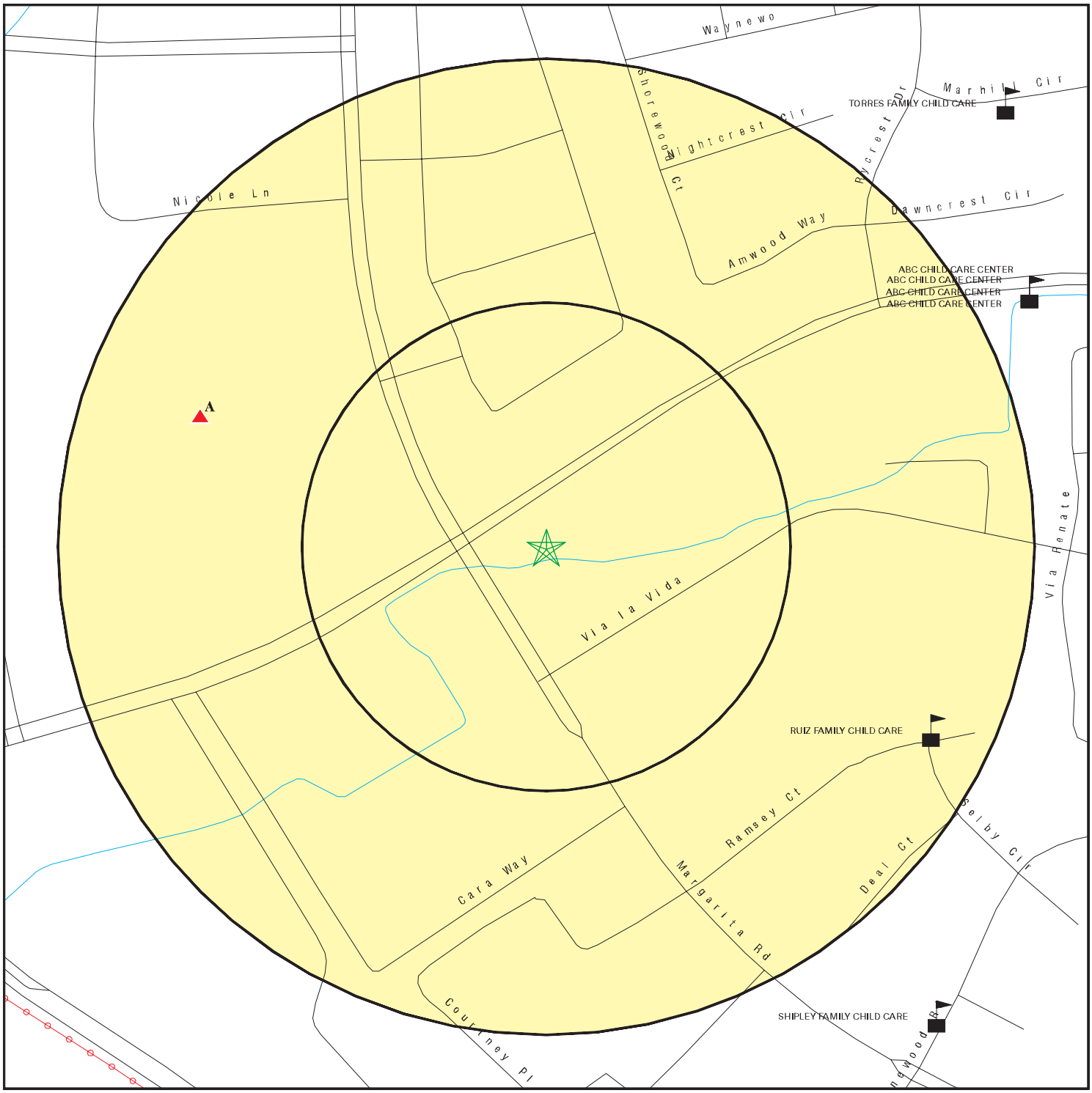
Areas of Concern

N

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: Temecula ALMC	CLIENT: Partner Engineering and Science, Inc.
ADDRESS: SE Corner of Margarita Road and Solana Way TEMECULA CA 92591	CONTACT: Alex Flores INQUIRY #: 5666141.2s
LAT/LONG: 33.516239 / 117.149167	DATE: May 29, 2019 12:47 pm

DETAIL MAP - 5666141.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

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SITE NAME: Temecula ALMC	CLIENT: Partner Engineering and Science, Inc.
ADDRESS: SE Corner of Margarita Road and Solana Way TEMECULA CA 92591	CONTACT: Alex Flores
LAT/LONG: 33.516239 / 117.149167	INQUIRY #: 5666141.2s
	DATE: May 29, 2019 12:49 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
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
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	2	NR	2
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	1	NR	NR	1

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
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	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
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		0	1	NR	NR	NR	1
US CDL	TP		NR	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	4	NR	4
UIC	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
CERS	TP		NR	NR	NR	NR	NR	0
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	2	1	6	0	9

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 WNW 1/8-1/4 0.189 mi. 1000 ft. | **ABBOTT CARDIOVASCULAR SYSTEMS, INC** | **CERS HAZ WASTE** | **S123504050**
41888 MOTORCAR PKWY | **CERS** | **N/A**
TEMECULA, CA 92591

Site 1 of 2 in cluster A

Relative: Higher

Actual: 1094 ft.

CERS HAZ WASTE:

Site ID:	183047
CERS ID:	10576144
CERS Description:	Hazardous Waste Generator

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-09-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-20-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-20-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	HW
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Riverside Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	4065 County Circle Drive, Room 104
Affiliation City:	Riverside
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92503
Affiliation Phone:	(951) 358-5055
Affiliation Type Desc:	Parent Corporation
Entity Name:	Abbott Cardiovascular Systems, Inc
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

ABBOTT CARDIOVASCULAR SYSTEMS, INC (Continued) **S123504050**

Affiliation Type Desc:	Identification Signer
Entity Name:	Marianett Roman
Entity Title:	EHS Specialist
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:	Abbott Cardiovascular Systems, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(951) 914-2400

Affiliation Type Desc:	Document Preparer
Entity Name:	Marianett Roman
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:	Marianett Roman
Entity Title:	Not reported
Affiliation Address:	26531 Ynez Road
Affiliation City:	Temecula
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92591
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	26531 Ynez Rd
Affiliation City:	Temecula
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92591
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Abbott Labratories, Inc
Entity Title:	Not reported
Affiliation Address:	100 Abbott Park
Affiliation City:	Abbott Park
Affiliation State:	IL
Affiliation Country:	United States

ABBOTT CARDIOVASCULAR SYSTEMS, INC (Continued) **S123504050**

Affiliation Zip:	60064
Affiliation Phone:	(847) 937-6100

CERS TANKS:

Site ID:	183047
CERS ID:	10576144
Site Name:	ABBOTT CARDIOVASCULAR SYSTEMS, INC
CERS Description:	Chemical Storage Facilities

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-09-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-20-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-20-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	HW
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Riverside Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	4065 County Circle Drive, Room 104
Affiliation City:	Riverside
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92503
Affiliation Phone:	(951) 358-5055

Affiliation Type Desc:	Parent Corporation
Entity Name:	Abbott Cardiovascular Systems, Inc
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

ABBOTT CARDIOVASCULAR SYSTEMS, INC (Continued) **S123504050**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Marianett Roman
Entity Title:	EHS Specialist
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:	Abbott Cardiovascular Systems, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(951) 914-2400
Affiliation Type Desc:	Document Preparer
Entity Name:	Marianett Roman
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:	Marianett Roman
Entity Title:	Not reported
Affiliation Address:	26531 Ynez Road
Affiliation City:	Temecula
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92591
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	26531 Ynez Rd
Affiliation City:	Temecula
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92591
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Abbott Labratories, Inc
Entity Title:	Not reported
Affiliation Address:	100 Abbott Park
Affiliation City:	Abbott Park

ABBOTT CARDIOVASCULAR SYSTEMS, INC (Continued) **S123504050**

Affiliation State:	IL
Affiliation Country:	United States
Affiliation Zip:	60064
Affiliation Phone:	(847) 937-6100

A2 WNW 1/8-1/4 0.189 mi. 1000 ft. **ABBOTT CARDIOVASCULAR SYSTEMS INC** **RCRA-SQG 1011488235**
41888 MOTOR CAR PARKWAY **HAZNET CAR000193946**
TEMECULA, CA 92591

Site 2 of 2 in cluster A

Relative: Higher

Actual: 1094 ft.

RCRA-SQG:

Date form received by agency:	12/07/2016
Facility name:	ABBOTT CARDIOVASCULAR SYSTEMS INC
Facility address:	41888 MOTOR CAR PARKWAY TEMECULA, CA 92591-4651
EPA ID:	CAR000193946
Mailing address:	YNEZ ROAD TEMECULA, CA 92591
Contact:	MARIANETT ROMAN DELGADO
Contact address:	YNEZ ROAD TEMECULA, CA 92591
Contact country:	US
Contact telephone:	951-914-5347
Contact email:	MARIANETT.ROMAN@AV.ABBOTT.COM
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	ABBOTT LABORATORIES INC
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	04/01/2006
Owner/Op end date:	Not reported

Owner/operator name:	ABBOTT LABORATORIES INC
Owner/operator address:	ABBOTT PARK RD ABBOTT PARK, IL 60064
Owner/operator country:	US
Owner/operator telephone:	847-937-6100
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private

ABBOTT CARDIOVASCULAR SYSTEMS INC (Continued) **1011488235**

Owner/Operator Type: Owner
Owner/Op start date: 04/01/2006
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 801
. Waste name: Waste potentially containing dioxins

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Historical Generators:
Date form received by agency: 07/17/2008
Site name: ABBOTT CARDIOVASCULAR SYSTEMS
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

HAZNET:
Site Name: ABBOTT CARDIOVASCULAR SYSTEMS
Year: 2017
GEPAID: CAR000193946
Contact: RAJU PATEL

ABBOTT CARDIOVASCULAR SYSTEMS INC (Continued) **1011488235**

Telephone:	9519143587
Mailing Name:	Not reported
Mailing Address:	26531 YNEZ RD
Mailing City,St,Zip:	TEMECULA, CA 925914630
Gen County:	Riverside
TSD EPA ID:	MXC130619001
TSD County:	Not reported
Tons:	0.575
CA Waste Code:	331-Off-specification, aged or surplus organics
Method:	H020-Solvents Recovery
Facility County:	Riverside

Site Name:	ABBOTT CARDIOVASCULAR SYSTEMS
Year:	2017
GEPAID:	CAR000193946
Contact:	RAJU PATEL
Telephone:	9519143587
Mailing Name:	Not reported
Mailing Address:	26531 YNEZ RD
Mailing City,St,Zip:	TEMECULA, CA 925914630
Gen County:	Riverside
TSD EPA ID:	MXC130619001
TSD County:	Not reported
Tons:	0.0125
CA Waste Code:	213-Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Method:	H020-Solvents Recovery
Facility County:	Riverside

Site Name:	ABBOTT CARDIOVASCULAR SYSTEMS
Year:	2017
GEPAID:	CAR000193946
Contact:	RAJU PATEL
Telephone:	9519143587
Mailing Name:	Not reported
Mailing Address:	26531 YNEZ RD
Mailing City,St,Zip:	TEMECULA, CA 925914630
Gen County:	Riverside
TSD EPA ID:	CAD088504881
TSD County:	Orange
Tons:	0.04
CA Waste Code:	181-Other inorganic solid waste
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Riverside

Site Name:	ABBOTT CARDIOVASCULAR SYSTEMS
Year:	2016
GEPAID:	CAR000193946
Contact:	RAJU PATEL
Telephone:	9519143587
Mailing Name:	Not reported
Mailing Address:	PO BOX 9018
Mailing City,St,Zip:	TEMECULA, CA 925899018
Gen County:	Riverside
TSD EPA ID:	TXD982290140
TSD County:	99
Tons:	0.013

ABBOTT CARDIOVASCULAR SYSTEMS INC (Continued) **1011488235**

CA Waste Code:	181-
Method:	H141-
Facility County:	Riverside

Site Name:	ABBOTT CARDIOVASCULAR SYSTEMS
Year:	2016
GEPAID:	CAR000193946
Contact:	RAJU PATEL
Telephone:	9519143587
Mailing Name:	Not reported
Mailing Address:	PO BOX 9018
Mailing City,St,Zip:	TEMECULA, CA 925899018
Gen County:	Riverside
TSD EPA ID:	TXD982290140
TSD County:	99
Tons:	0.0135
CA Waste Code:	181-
Method:	H121-
Facility County:	Riverside

Click this hyperlink while viewing on your computer to access
16 additional CA_HAZNET: record(s) in the EDR Site Report.

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3 **YNEZ SHELL** **LUST** **S106091206**
WSW **26680 YNEZ RD** **CERS HAZ WASTE** **N/A**
1/4-1/2 **TEMECULA, CA 92591** **CERS TANKS**
0.348 mi. **HAZNET**
1837 ft. **CERS**

Relative:
Lower

Actual:
1067 ft.

LUST:

Lead Agency:	SAN DIEGO RWQCB (REGION 9)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606582847
Global Id:	T0606582847
Latitude:	33.5151762133713
Longitude:	-117.154920101166
Status:	Completed - Case Closed
Status Date:	06/17/2011
Case Worker:	SM
RB Case Number:	9UT4135
Local Agency:	Not reported
File Location:	Regional Board
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Environmental investigation activities were initiated at the site during 2002 and 2003. A test conducted from May through June 2002 indicated releases of tracer in the vicinity of an underground storage tank (UST). The site is currently being monitored on a quarterly basis, with the primary constituent of concern being petroleums as hydrocarbons, MtBE and tBA. For more information see Corrective Action Plan dated May 5, 2006 under the Site Documents tab.
	Not reported

LUST:

Global Id:	T0606582847
Contact Type:	Regional Board Caseworker
Contact Name:	SEAN MCCLAIN

YNEZ SHELL (Continued) **S106091206**

Organization Name: SAN DIEGO RWQCB (REGION 9)
Address: 2375 NORTHSIDE DRIVE, SUITE 100
City: SAN DIEGO
Email: sean.mcclain@waterboards.ca.gov
Phone Number: 6195213374

LUST:

Global Id: T0606582847
Action Type: RESPONSE
Date: 04/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0606582847
Action Type: RESPONSE
Date: 01/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0606582847
Action Type: RESPONSE
Date: 04/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0606582847
Action Type: RESPONSE
Date: 04/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0606582847
Action Type: RESPONSE
Date: 07/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0606582847
Action Type: RESPONSE
Date: 07/31/2006
Action: Monitoring Report - Quarterly

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 01/12/2006
Action: * Verbal Communication

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 04/27/2005
Action: * Verbal Communication

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 07/06/2004
Action: * Verbal Communication

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 01/07/2005
Action: Notice of Violation - #R9-2005-0009

YNEZ SHELL (Continued) **S106091206**

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 01/03/2005
Action: * Verbal Communication

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 04/01/2005
Action: * Verbal Communication

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 02/11/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0606582847
Action Type: Other
Date: 08/20/2002
Action: Leak Reported

Global Id: T0606582847
Action Type: RESPONSE
Date: 05/10/2006
Action: CAP/RAP - Other Report

Global Id: T0606582847
Action Type: RESPONSE
Date: 04/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 09/27/2004
Action: * Verbal Communication

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 06/10/2005
Action: Staff Letter - #R9-2005-0178

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 06/01/2009
Action: Site Visit / Inspection / Sampling

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 03/27/2009
Action: Verbal Enforcement

Global Id: T0606582847
Action Type: RESPONSE
Date: 10/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0606582847
Action Type: RESPONSE

YNEZ SHELL (Continued) **S106091206**

Date: 07/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0606582847
Action Type: RESPONSE
Date: 04/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0606582847
Action Type: RESPONSE
Date: 07/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0606582847
Action Type: RESPONSE
Date: 08/30/2007
Action: Other Workplan

Global Id: T0606582847
Action Type: RESPONSE
Date: 04/30/2006
Action: Other Report / Document

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 10/20/2005
Action: * Verbal Communication

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 04/21/2005
Action: * Verbal Communication

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 04/13/2005
Action: * Verbal Communication

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 01/12/2007
Action: Verbal Enforcement

Global Id: T0606582847
Action Type: REMEDIATION
Date: 07/09/2007
Action: Soil Vapor Extraction (SVE)

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 02/24/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 05/15/2011
Action: Notification - Preclosure

YNEZ SHELL (Continued) **S106091206**

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 05/17/2011
Action: Notification - Public Notice of Case Closure

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 06/17/2011
Action: Closure/No Further Action Letter

Global Id: T0606582847
Action Type: RESPONSE
Date: 10/31/2005
Action: Monitoring Report - Quarterly

Global Id: T0606582847
Action Type: RESPONSE
Date: 01/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 01/17/2006
Action: * Verbal Communication

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 02/02/2005
Action: * Verbal Communication

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 02/16/2005
Action: * Verbal Communication

Global Id: T0606582847
Action Type: RESPONSE
Date: 04/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 06/17/2003
Action: Notice of Responsibility

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 07/13/2005
Action: Staff Letter

Global Id: T0606582847
Action Type: Other
Date: 08/20/2002
Action: Leak Began

Global Id: T0606582847
Action Type: ENFORCEMENT

YNEZ SHELL (Continued) **S106091206**

Date: 12/28/2004
Action: * Verbal Communication

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 04/05/2005
Action: * Verbal Communication

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 09/08/2006
Action: Technical Correspondence / Assistance / Other

Global Id: T0606582847
Action Type: RESPONSE
Date: 08/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 06/10/2005
Action: * Verbal Communication

Global Id: T0606582847
Action Type: Other
Date: 08/20/2002
Action: Leak Discovery

Global Id: T0606582847
Action Type: RESPONSE
Date: 01/30/2004
Action: Soil and Water Investigation Workplan

Global Id: T0606582847
Action Type: RESPONSE
Date: 05/30/2004
Action: Other Report / Document

Global Id: T0606582847
Action Type: RESPONSE
Date: 05/31/2004
Action: Other Report / Document

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 05/13/2004
Action: * Verbal Communication

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 05/27/2004
Action: Staff Letter

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 06/18/2004
Action: * Verbal Communication

YNEZ SHELL (Continued) **S106091206**

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 01/15/2004
Action: * Verbal Communication

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 02/25/2004
Action: Staff Letter

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 04/13/2004
Action: * Verbal Communication

Global Id: T0606582847
Action Type: Other
Date: 08/20/2002
Action: Leak Stopped

Global Id: T0606582847
Action Type: RESPONSE
Date: 12/30/2004
Action: Other Report / Document

Global Id: T0606582847
Action Type: RESPONSE
Date: 12/29/2004
Action: Other Report / Document

Global Id: T0606582847
Action Type: RESPONSE
Date: 12/28/2004
Action: Other Report / Document

Global Id: T0606582847
Action Type: RESPONSE
Date: 01/31/2006
Action: Monitoring Report - Quarterly

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 05/10/2005
Action: * Verbal Communication

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 09/02/2003
Action: * Verbal Communication

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 01/06/2005
Action: Site Visit / Inspection / Sampling

Global Id: T0606582847
Action Type: ENFORCEMENT

YNEZ SHELL (Continued) **S106091206**

Date: 09/04/2003
Action: Staff Letter - #R9-2003-0323

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 01/14/2004
Action: * Verbal Communication

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 05/06/2004
Action: * Verbal Communication

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 02/01/2005
Action: * Verbal Communication

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 01/04/2005
Action: * Verbal Communication

Global Id: T0606582847
Action Type: ENFORCEMENT
Date: 04/19/2004
Action: * Verbal Communication

LUST:
Global Id: T0606582847
Status: Completed - Case Closed
Status Date: 06/17/2011

Global Id: T0606582847
Status: Open - Case Begin Date
Status Date: 08/20/2002

Global Id: T0606582847
Status: Open - Remediation
Status Date: 05/10/2006

Global Id: T0606582847
Status: Open - Site Assessment
Status Date: 02/04/2004

Global Id: T0606582847
Status: Open - Site Assessment
Status Date: 12/10/2004

Global Id: T0606582847
Status: Open - Verification Monitoring
Status Date: 05/15/2010

CERS HAZ WASTE:
Site ID: 86875

YNEZ SHELL (Continued) **S106091206**

CERS ID: 10325389
CERS Description: Hazardous Waste Generator

Violations:

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-30-2013
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 10/30/2013.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-30-2013
Citation: 22 CCR 15 66265.174 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.174
Violation Description: Failure to inspect hazardous waste storage areas at least weekly.
Violation Notes: Returned to compliance on 12/18/2013.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-27-2015
Citation: HSC 6.7 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25286
Violation Description: Failure to obtain and maintain a valid Board of Equalization account number.
Violation Notes: Not reported
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-30-2013
Citation: 22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description: Failure to properly close hazardous waste containers when not in active use.
Violation Notes: Returned to compliance on 12/18/2013.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-18-2017
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.

YNEZ SHELL (Continued) **S106091206**

Violation Notes:	Returned to compliance on 10/18/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	86875
Site Name:	Ynez Shell #66
Violation Date:	11-01-2016
Citation:	19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 11/18/2016.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	86875
Site Name:	Ynez Shell #66
Violation Date:	10-24-2016
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to have a UST Monitoring Plan available on site.
Violation Notes:	Returned to compliance on 12/11/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	86875
Site Name:	Ynez Shell #66
Violation Date:	09-17-2018
Citation:	23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description:	Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the UPA, for the life of the UST.
Violation Notes:	Returned to compliance on 02/06/2019.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	86875
Site Name:	Ynez Shell #66
Violation Date:	10-30-2013
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 12/18/2013.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HW
Violation Source:	CERS

Site ID:	86875
Site Name:	Ynez Shell #66
Violation Date:	09-17-2018

YNEZ SHELL (Continued) **S106091206**

Citation:	HSC 6.7 25293 - California Health and Safety Code, Chapter 6.7, Section(s) 25293
Violation Description:	Failure to maintain UST records of monitoring, testing, repairing, and closure in sufficient detail to enable the UPA to determine whether the UST systems are in compliance.
Violation Notes:	Returned to compliance on 02/06/2019.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	86875
Site Name:	Ynez Shell #66
Violation Date:	10-18-2017
Citation:	23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description:	Failure to have an approved UST Monitoring Plan.
Violation Notes:	Returned to compliance on 12/11/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	86875
Site Name:	Ynez Shell #66
Violation Date:	09-17-2018
Citation:	23 CCR 16 2715(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(e)
Violation Description:	Failure to maintain a copy of the designated operator monthly inspections for the last 12 months on-site or off-site at a readily available location, if approved by the UPA.
Violation Notes:	Returned to compliance on 02/06/2019.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	86875
Site Name:	Ynez Shell #66
Violation Date:	10-18-2017
Citation:	23 CCR 6.7 25284, 25286 - California Code of Regulations, Title 23, Chapter 6.7, Section(s) 25284, 25286
Violation Description:	Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes:	Returned to compliance on 12/11/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	86875
Site Name:	Ynez Shell #66
Violation Date:	10-30-2013
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 12/18/2013. [LOCAL ORDINANCE VIOLATION 105A] Hazardous materials are stored in a manner to minimize the possibility of a fire, explosion, or release.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP

YNEZ SHELL (Continued) **S106091206**

Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-30-2013
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 12/18/2013. [LOCAL ORDINANCE VIOLATION 104D] Emergency equipment has been posted appropriately.
Violation Division: Riverside County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-30-2013
Citation: 22 CCR 15 66265.171 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.171
Violation Description: Failure to accumulate hazardous waste in a container that is in good condition.
Violation Notes: Returned to compliance on 12/18/2013.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-30-2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Release/Leaks/Spills - General
Violation Notes: Returned to compliance on 12/18/2013.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-17-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-18-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Generator inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection

YNEZ SHELL (Continued) **S106091206**

Eval Date:	10-30-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-30-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	02-01-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	02-06-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-27-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	12-11-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-18-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency

YNEZ SHELL (Continued) **S106091206**

Eval Notes:	CMD
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-24-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	The facility went through a change of ownership during the fiscal year. The annual monitoring certification was completed under the old Program Record Identification.
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-30-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-30-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-01-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-18-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	RTC-Violations corrected.
Eval Division:	Riverside County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-18-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Handler inspection

YNEZ SHELL (Continued) **S106091206**

Eval Division:	Riverside County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-01-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	HW
Eval Source:	CERS

Enforcement Action:

Site ID:	86875
Site Name:	Ynez Shell #66
Site Address:	26680 YNEZ RD
Site City:	TEMECULA
Site Zip:	92591
Enf Action Date:	10-27-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Riverside County Department of Env Health
Enf Action Program:	UST
Enf Action Source:	CERS
Site ID:	86875
Site Name:	Ynez Shell #66
Site Address:	26680 YNEZ RD
Site City:	TEMECULA
Site Zip:	92591
Enf Action Date:	10-30-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Riverside County Department of Env Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS
Site ID:	86875
Site Name:	Ynez Shell #66
Site Address:	26680 YNEZ RD
Site City:	TEMECULA
Site Zip:	92591
Enf Action Date:	10-30-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Riverside County Department of Env Health
Enf Action Program:	HW
Enf Action Source:	CERS
Site ID:	86875
Site Name:	Ynez Shell #66
Site Address:	26680 YNEZ RD
Site City:	TEMECULA

YNEZ SHELL (Continued) **S106091206**

Site Zip:	92591
Enf Action Date:	10-30-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Riverside County Department of Env Health
Enf Action Program:	UST
Enf Action Source:	CERS

Coordinates:

Site ID:	86875
Facility Name:	Ynez Shell #66
Env Int Type Code:	HWG
Program ID:	10325389
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.515120
Longitude:	-117.154910

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Stantec Consulting Services Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	AU Energy, 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

Affiliation Type Desc:	Property Owner
Entity Name:	AU Energy, LLC
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94538
Affiliation Phone:	(510) 657-9150

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Sunny Goyal
Entity Title:	Project Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported

YNEZ SHELL (Continued) **S106091206**

Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(510) 657-9150
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	AU Energy, LLC
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94538
Affiliation Phone:	(510) 657-9150
Affiliation Type Desc:	CUPA District
Entity Name:	Riverside Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	4065 County Circle Drive, Room 104
Affiliation City:	Riverside
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92503
Affiliation Phone:	(951) 358-5055
Affiliation Type Desc:	Environmental Contact
Entity Name:	Sunny Goyal
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94538
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Sunny Goyal
Entity Title:	Project 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:	AU Energy, 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:	(951) 850-5378
Affiliation Type Desc:	UST Tank Owner
Entity Name:	AU Energy, LLC
Entity Title:	Not reported

YNEZ SHELL (Continued) **S106091206**

Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94538
Affiliation Phone:	(510) 657-9150
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94538
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	AU Energy, LLC
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94538
Affiliation Phone:	(510) 657-9150
Affiliation Type Desc:	UST Tank Operator
Entity Name:	AU Energy, LLC
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94538
Affiliation Phone:	(510) 657-9150

CERS TANKS:

Facility Name:	YNEZ SHELL #66
Site ID:	86875
CERS ID:	10325389
CERS Description:	Underground Storage Tank

Violations:

Site ID:	86875
Site Name:	Ynez Shell #66
Violation Date:	10-30-2013
Citation:	HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description:	UST Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 10/30/2013.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	86875

YNEZ SHELL (Continued) **S106091206**

Site Name: Ynez Shell #66
Violation Date: 10-30-2013
Citation: 22 CCR 15 66265.174 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.174
Violation Description: Failure to inspect hazardous waste storage areas at least weekly.
Violation Notes: Returned to compliance on 12/18/2013.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-27-2015
Citation: HSC 6.7 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25286
Violation Description: Failure to obtain and maintain a valid Board of Equalization account number.
Violation Notes: Not reported
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-30-2013
Citation: 22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description: Failure to properly close hazardous waste containers when not in active use.
Violation Notes: Returned to compliance on 12/18/2013.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-18-2017
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 10/18/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 11-01-2016
Citation: 19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: Returned to compliance on 11/18/2016.
Violation Division: Riverside County Department of Env Health
Violation Program: HMRRP

YNEZ SHELL (Continued) **S106091206**

Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-24-2016
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have a UST Monitoring Plan available on site.
Violation Notes: Returned to compliance on 12/11/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 09-17-2018
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the UPA, for the life of the UST.
Violation Notes: Returned to compliance on 02/06/2019.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-30-2013
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 12/18/2013.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 09-17-2018
Citation: HSC 6.7 25293 - California Health and Safety Code, Chapter 6.7, Section(s) 25293
Violation Description: Failure to maintain UST records of monitoring, testing, repairing, and closure in sufficient detail to enable the UPA to determine whether the UST systems are in compliance.
Violation Notes: Returned to compliance on 02/06/2019.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-18-2017
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)

YNEZ SHELL (Continued) **S106091206**

Violation Description: Failure to have an approved UST Monitoring Plan.
Violation Notes: Returned to compliance on 12/11/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 09-17-2018
Citation: 23 CCR 16 2715(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(e)
Violation Description: Failure to maintain a copy of the designated operator monthly inspections for the last 12 months on-site or off-site at a readily available location, if approved by the UPA.
Violation Notes: Returned to compliance on 02/06/2019.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-18-2017
Citation: 23 CCR 6.7 25284, 25286 - California Code of Regulations, Title 23, Chapter 6.7, Section(s) 25284, 25286
Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes: Returned to compliance on 12/11/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-30-2013
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 12/18/2013. [LOCAL ORDINANCE VIOLATION 105A] Hazardous materials are stored in a manner to minimize the possibility of a fire, explosion, or release.
Violation Division: Riverside County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-30-2013
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 12/18/2013. [LOCAL ORDINANCE VIOLATION 104D] Emergency equipment has been posted appropriately.
Violation Division: Riverside County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 86875

YNEZ SHELL (Continued) **S106091206**

Site Name: Ynez Shell #66
Violation Date: 10-30-2013
Citation: 22 CCR 15 66265.171 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.171
Violation Description: Failure to accumulate hazardous waste in a container that is in good condition.
Violation Notes: Returned to compliance on 12/18/2013.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-30-2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Release/Leaks/Spills - General
Violation Notes: Returned to compliance on 12/18/2013.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-17-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-18-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Generator inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: UST

YNEZ SHELL (Continued) **S106091206**

Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-01-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-06-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-27-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-11-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-18-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	CMD
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-24-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	The facility went through a change of ownership during the fiscal year. The annual monitoring certification was completed under the old Program Record Identification.
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS

YNEZ SHELL (Continued) **S106091206**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-30-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-30-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-01-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	12-18-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	RTC-Violations corrected.
Eval Division:	Riverside County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-18-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Handler inspection
Eval Division:	Riverside County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-01-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	HW
Eval Source:	CERS

Enforcement Action:

Site ID:	86875
Site Name:	Ynez Shell #66

YNEZ SHELL (Continued) **S106091206**

Site Address:	26680 YNEZ RD
Site City:	TEMECULA
Site Zip:	92591
Enf Action Date:	10-27-2015
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Riverside County Department of Env Health
Enf Action Program:	UST
Enf Action Source:	CERS

Site ID:	86875
Site Name:	Ynez Shell #66
Site Address:	26680 YNEZ RD
Site City:	TEMECULA
Site Zip:	92591
Enf Action Date:	10-30-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Riverside County Department of Env Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Site ID:	86875
Site Name:	Ynez Shell #66
Site Address:	26680 YNEZ RD
Site City:	TEMECULA
Site Zip:	92591
Enf Action Date:	10-30-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Riverside County Department of Env Health
Enf Action Program:	HW
Enf Action Source:	CERS

Site ID:	86875
Site Name:	Ynez Shell #66
Site Address:	26680 YNEZ RD
Site City:	TEMECULA
Site Zip:	92591
Enf Action Date:	10-30-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Riverside County Department of Env Health
Enf Action Program:	UST
Enf Action Source:	CERS

Coordinates:

Site ID:	86875
Facility Name:	Ynez Shell #66
Env Int Type Code:	HWG
Program ID:	10325389
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.

YNEZ SHELL (Continued) **S106091206**

Latitude: 33.515120
Longitude: -117.154910

Affiliation:

Affiliation Type Desc: Document Preparer
Entity Name: Stantec Consulting Services Inc.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: AU Energy, 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

Affiliation Type Desc: Property Owner
Entity Name: AU Energy, LLC
Entity Title: Not reported
Affiliation Address: 41805 Albrae Street
Affiliation City: Fremont
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94538
Affiliation Phone: (510) 657-9150

Affiliation Type Desc: UST Permit Applicant
Entity Name: Sunny Goyal
Entity Title: Project Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (510) 657-9150

Affiliation Type Desc: UST Property Owner Name
Entity Name: AU Energy, LLC
Entity Title: Not reported
Affiliation Address: 41805 Albrae Street
Affiliation City: Fremont
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94538
Affiliation Phone: (510) 657-9150

Affiliation Type Desc: CUPA District
Entity Name: Riverside Cnty Env Health
Entity Title: Not reported

YNEZ SHELL (Continued) **S106091206**

Affiliation Address:	4065 County Circle Drive, Room 104
Affiliation City:	Riverside
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92503
Affiliation Phone:	(951) 358-5055

Affiliation Type Desc:	Environmental Contact
Entity Name:	Sunny Goyal
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94538
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Sunny Goyal
Entity Title:	Project 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:	AU Energy, 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:	(951) 850-5378

Affiliation Type Desc:	UST Tank Owner
Entity Name:	AU Energy, LLC
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94538
Affiliation Phone:	(510) 657-9150

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94538
Affiliation Phone:	Not reported

YNEZ SHELL (Continued) **S106091206**

Affiliation Type Desc:	Legal Owner
Entity Name:	AU Energy, LLC
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94538
Affiliation Phone:	(510) 657-9150

Affiliation Type Desc:	UST Tank Operator
Entity Name:	AU Energy, LLC
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94538
Affiliation Phone:	(510) 657-9150

HAZNET:

Site Name:	YNEZ SHELL
Year:	2016
GEPAID:	CAL000357347
Contact:	SUNNY GOYAL
Telephone:	5102703418
Mailing Name:	Not reported
Mailing Address:	41805 ALBRAE ST
Mailing City,St,Zip:	FREMONT, CA 945380000
Gen County:	Riverside
TSD EPA ID:	CAD044429835
TSD County:	Los Angeles
Tons:	0.05
CA Waste Code:	133-
Method:	H141-
Facility County:	Riverside

Site Name:	YNEZ SHELL
Year:	2015
GEPAID:	CAL000357347
Contact:	SUNNY GOYAL
Telephone:	5102703418
Mailing Name:	Not reported
Mailing Address:	41805 ALBRAE ST
Mailing City,St,Zip:	FREMONT, CA 945380000
Gen County:	Riverside
TSD EPA ID:	NED981723513
TSD County:	99
Tons:	0.005
CA Waste Code:	352-
Method:	H040-
Facility County:	Riverside

Site Name:	YNEZ SHELL
Year:	2014
GEPAID:	CAL000357347

YNEZ SHELL (Continued) **S106091206**

Contact: JOHN ELLIS
Telephone: 5102703418
Mailing Name: Not reported
Mailing Address: 41805 ALBRAE ST
Mailing City,St,Zip: FREMONT, CA 945383120
Gen County: Riverside
TSD EPA ID: NED981723513
TSD County: 99
Tons: 0.01
CA Waste Code: 352-
Method: H040-
Facility County: Riverside

Site Name: YNEZ SHELL
Year: 2013
GEPAID: CAL000357347
Contact: JOHN ELLIS
Telephone: 5102703418
Mailing Name: Not reported
Mailing Address: 41805 ALBRAE ST
Mailing City,St,Zip: FREMONT, CA 945383120
Gen County: Riverside
TSD EPA ID: CAD981696420
TSD County: Los Angeles
Tons: 0.02085
CA Waste Code: -
Method: H141-
Facility County: Not reported

Site Name: YNEZ SHELL
Year: 2013
GEPAID: CAL000357347
Contact: JOHN ELLIS
Telephone: 5102703418
Mailing Name: Not reported
Mailing Address: 41805 ALBRAE ST
Mailing City,St,Zip: FREMONT, CA 945383120
Gen County: Riverside
TSD EPA ID: CAD008252405
TSD County: Los Angeles
Tons: 0.035
CA Waste Code: -
Method: H141-
Facility County: Not reported

Click this hyperlink while viewing on your computer to access additional CA_HAZNET: detail in the EDR Site Report.

CERS TANKS:
Site ID: 86875
CERS ID: 10325389
Site Name: YNEZ SHELL #66
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 86875
Site Name: Ynez Shell #66

YNEZ SHELL (Continued) **S106091206**

Violation Date: 10-30-2013
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 10/30/2013.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-30-2013
Citation: 22 CCR 15 66265.174 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.174
Violation Description: Failure to inspect hazardous waste storage areas at least weekly.
Violation Notes: Returned to compliance on 12/18/2013.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-27-2015
Citation: HSC 6.7 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25286
Violation Description: Failure to obtain and maintain a valid Board of Equalization account number.
Violation Notes: Not reported
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-30-2013
Citation: 22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description: Failure to properly close hazardous waste containers when not in active use.
Violation Notes: Returned to compliance on 12/18/2013.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-18-2017
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 10/18/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

YNEZ SHELL (Continued) **S106091206**

Site ID:	86875
Site Name:	Ynez Shell #66
Violation Date:	11-01-2016
Citation:	19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 11/18/2016.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	86875
Site Name:	Ynez Shell #66
Violation Date:	10-24-2016
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to have a UST Monitoring Plan available on site.
Violation Notes:	Returned to compliance on 12/11/2017.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	86875
Site Name:	Ynez Shell #66
Violation Date:	09-17-2018
Citation:	23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description:	Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the UPA, for the life of the UST.
Violation Notes:	Returned to compliance on 02/06/2019.
Violation Division:	Riverside County Department of Env Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	86875
Site Name:	Ynez Shell #66
Violation Date:	10-30-2013
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 12/18/2013.
Violation Division:	Riverside County Department of Env Health
Violation Program:	HW
Violation Source:	CERS

Site ID:	86875
Site Name:	Ynez Shell #66
Violation Date:	09-17-2018
Citation:	HSC 6.7 25293 - California Health and Safety Code, Chapter 6.7, Section(s) 25293
Violation Description:	Failure to maintain UST records of monitoring, testing, repairing, and closure in sufficient detail to enable the UPA to determine whether the UST systems are in compliance.

YNEZ SHELL (Continued) **S106091206**

Violation Notes: Returned to compliance on 02/06/2019.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-18-2017
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description: Failure to have an approved UST Monitoring Plan.
Violation Notes: Returned to compliance on 12/11/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 09-17-2018
Citation: 23 CCR 16 2715(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(e)
Violation Description: Failure to maintain a copy of the designated operator monthly inspections for the last 12 months on-site or off-site at a readily available location, if approved by the UPA.
Violation Notes: Returned to compliance on 02/06/2019.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-18-2017
Citation: 23 CCR 6.7 25284, 25286 - California Code of Regulations, Title 23, Chapter 6.7, Section(s) 25284, 25286
Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes: Returned to compliance on 12/11/2017.
Violation Division: Riverside County Department of Env Health
Violation Program: UST
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-30-2013
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 12/18/2013. [LOCAL ORDINANCE VIOLATION 105A] Hazardous materials are stored in a manner to minimize the possibility of a fire, explosion, or release.
Violation Division: Riverside County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-30-2013

YNEZ SHELL (Continued) **S106091206**

Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 12/18/2013. [LOCAL ORDINANCE VIOLATION 104D] Emergency equipment has been posted appropriately.
Violation Division: Riverside County Department of Env Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-30-2013
Citation: 22 CCR 15 66265.171 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.171
Violation Description: Failure to accumulate hazardous waste in a container that is in good condition.
Violation Notes: Returned to compliance on 12/18/2013.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Violation Date: 10-30-2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Release/Leaks/Spills - General
Violation Notes: Returned to compliance on 12/18/2013.
Violation Division: Riverside County Department of Env Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-17-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-18-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Generator inspection
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-30-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health

YNEZ SHELL (Continued) **S106091206**

Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-30-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-01-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-06-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-27-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-11-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-18-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	CMD
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS

YNEZ SHELL (Continued) **S106091206**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-24-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	The facility went through a change of ownership during the fiscal year. The annual monitoring certification was completed under the old Program Record Identification.
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-30-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-30-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-01-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Riverside County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	12-18-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	RTC-Violations corrected.
Eval Division:	Riverside County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-18-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Handler inspection
Eval Division:	Riverside County Department of Env Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection

YNEZ SHELL (Continued) **S106091206**

Eval Date: 11-01-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Riverside County Department of Env Health
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 86875
Site Name: Ynez Shell #66
Site Address: 26680 YNEZ RD
Site City: TEMECULA
Site Zip: 92591
Enf Action Date: 10-27-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Site Address: 26680 YNEZ RD
Site City: TEMECULA
Site Zip: 92591
Enf Action Date: 10-30-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Site Address: 26680 YNEZ RD
Site City: TEMECULA
Site Zip: 92591
Enf Action Date: 10-30-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Riverside County Department of Env Health
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 86875
Site Name: Ynez Shell #66
Site Address: 26680 YNEZ RD
Site City: TEMECULA
Site Zip: 92591
Enf Action Date: 10-30-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported

YNEZ SHELL (Continued) **S106091206**

Enf Action Division: Riverside County Department of Env Health
Enf Action Program: UST
Enf Action Source: CERS

Coordinates:
Site ID: 86875
Facility Name: Ynez Shell #66
Env Int Type Code: HWG
Program ID: 10325389
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.515120
Longitude: -117.154910

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Stantec Consulting Services Inc.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: AU Energy, 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

Affiliation Type Desc: Property Owner
Entity Name: AU Energy, LLC
Entity Title: Not reported
Affiliation Address: 41805 Albrae Street
Affiliation City: Fremont
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94538
Affiliation Phone: (510) 657-9150

Affiliation Type Desc: UST Permit Applicant
Entity Name: Sunny Goyal
Entity Title: Project Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (510) 657-9150

Affiliation Type Desc: UST Property Owner Name

YNEZ SHELL (Continued) **S106091206**

Entity Name:	AU Energy, LLC
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94538
Affiliation Phone:	(510) 657-9150

Affiliation Type Desc:	CUPA District
Entity Name:	Riverside Cnty Env Health
Entity Title:	Not reported
Affiliation Address:	4065 County Circle Drive, Room 104
Affiliation City:	Riverside
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92503
Affiliation Phone:	(951) 358-5055

Affiliation Type Desc:	Environmental Contact
Entity Name:	Sunny Goyal
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94538
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Sunny Goyal
Entity Title:	Project 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:	AU Energy, 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:	(951) 850-5378

Affiliation Type Desc:	UST Tank Owner
Entity Name:	AU Energy, LLC
Entity Title:	Not reported
Affiliation Address:	41805 Albrae Street
Affiliation City:	Fremont
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94538

YNEZ SHELL (Continued) **S106091206**

Affiliation Phone: (510) 657-9150

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 41805 Albrae Street
Affiliation City: Fremont
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94538
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: AU Energy, LLC
Entity Title: Not reported
Affiliation Address: 41805 Albrae Street
Affiliation City: Fremont
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94538
Affiliation Phone: (510) 657-9150

Affiliation Type Desc: UST Tank Operator
Entity Name: AU Energy, LLC
Entity Title: Not reported
Affiliation Address: 41805 Albrae Street
Affiliation City: Fremont
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94538
Affiliation Phone: (510) 657-9150

Site ID: 202585
CERS ID: T0606582847
Site Name: YNEZ SHELL FOOD MART
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: SEAN MCCLAIN - SAN DIEGO RWQCB (REGION 9)
Entity Title: Not reported
Affiliation Address: 2375 NORTHSIDE DRIVE, SUITE 100
Affiliation City: SAN DIEGO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 6195213374

4 SW 1/2-1 0.618 mi. 3264 ft. | **AHAM TOR INC**
27901 FRONT ST
TEMECULA, CA 92590 | **ENVIROSTOR SWEEPS UST CA FID UST** | **S101631167**
N/A

Relative: Lower

Actual: 1013 ft.

ENVIROSTOR:

Facility ID:	71002656
Status:	Inactive - Needs Evaluation
Status Date:	Not reported
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Cypress
Assembly:	75
Senate:	28
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.51073
Longitude:	-117.1582
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAD099163958
Alias Type:	EPA Identification Number
Alias Name:	110018990449
Alias Type:	EPA (FRS #)
Alias Name:	71002656
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SWEEPS UST:

Status:	Active

AHAM TOR INC (Continued) **S101631167**

Comp Number:	1850
Number:	1
Board Of Equalization:	Not reported
Referral Date:	10-19-92
Action Date:	10-19-92
Created Date:	08-28-91
Owner Tank Id:	Not reported
SWRCB Tank Id:	33-000-001850-000001
Tank Status:	A
Capacity:	5000
Active Date:	10-19-92
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	1

CA FID UST:

Facility ID:	33001066
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7146764151
Mail To:	Not reported
Mailing Address:	27901 FRONT ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	TEMECULA 92590
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

5
SW
1/2-1
0.679 mi.
3584 ft.

Relative:
Lower

Actual:
1010 ft.

BORG-WARNER CORPORATION
27941 FRONT STREET
TEMECULA, CA 92390

ENVIROSTOR **S102425557**
LUST **N/A**
EMI
ENF
HIST CORTESE
CIWQS
CERS

ENVIROSTOR:

Facility ID:	33360037
Status:	Refer: RWQCB
Status Date:	05/12/1995
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	* Mmonroy
Division Branch:	Cleanup Cypress

BORG-WARNER CORPORATION (Continued) **S102425557**

Assembly: 75
Senate: 28
Special Program: * CERC2
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.50839
Longitude: -117.1564
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * HALOGENATED SOLVENTS * HYDROCARBON SOLVENTS * ORGANIC LIQUIDS WITH METALS * OTHER ORGANIC SOLIDS * OXYGENATED SOLVENTS * CONTAMINATED SOIL * UNSPECIFIED OIL CONTAINING WASTE * WASTE OIL & MIXED OIL * ORGANIC LIQUIDS (NONSOLVENTS) WITH HALOGENS * OTHER PESTICIDE CONTAINERS, 30 GALLONS OR MORE * UNSPECIFIED ORGANIC LIQUID MIXTURE
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 33360037
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 04/25/1983
Comments: FACILITY IDENTIFIED ID FROM DMI FILE LISTING.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/12/1995
Comments: NFA FOR DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 06/30/1988
Comments: PRELIM ASSESS DONE STATE-PENDING UNTIL FURTHER INFORMATION FROM SI DONE BY COMPANY UNDER C & A BY RWQCB

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/12/1987
Comments: SITE SCREENING DONE MORE INFO NEEDED

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST:

BORG-WARNER CORPORATION (Continued) **S102425557**

Lead Agency:	SAN DIEGO RWQCB (REGION 9)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606501145
Global Id:	T0606501145
Latitude:	33.50914881
Longitude:	-117.1564832
Status:	Completed - Case Closed
Status Date:	08/11/1999
Case Worker:	LAW
RB Case Number:	9UT758
Local Agency:	Not reported
File Location:	Regional Board
Local Case Number:	9000000654
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Trichloroethylene (TCE)
Site History:	Not reported

LUST:

Global Id:	T0606501145
Contact Type:	Regional Board Caseworker
Contact Name:	LAURIE A. WALSH
Organization Name:	SAN DIEGO RWQCB (REGION 9)
Address:	2375 NORTHSIDE DRIVE, SUITE 100
City:	SAN DIEGO
Email:	laurie.walsh@waterboards.ca.gov
Phone Number:	6195213373

LUST:

Global Id:	T0606501145
Action Type:	ENFORCEMENT
Date:	12/01/1994
Action:	13267 Monitoring Program - #94-169
Global Id:	T0606501145
Action Type:	Other
Date:	06/08/1987
Action:	Leak Reported
Global Id:	T0606501145
Action Type:	ENFORCEMENT
Date:	12/01/1994
Action:	Waste Discharge Requirements - #94-169
Global Id:	T0606501145
Action Type:	ENFORCEMENT
Date:	02/18/1988
Action:	* Historical Enforcement
Global Id:	T0606501145
Action Type:	Other
Date:	06/08/1987
Action:	Leak Discovery
Global Id:	T0606501145
Action Type:	Other
Date:	06/08/1987
Action:	Leak Stopped

BORG-WARNER CORPORATION (Continued) **S102425557**

LUST:

Global Id:	T0606501145
Status:	Completed - Case Closed
Status Date:	08/11/1999
Global Id:	T0606501145
Status:	Open - Case Begin Date
Status Date:	06/08/1987
Global Id:	T0606501145
Status:	Open - Remediation
Status Date:	09/11/1998
Global Id:	T0606501145
Status:	Open - Remediation
Status Date:	03/01/1999
Global Id:	T0606501145
Status:	Open - Site Assessment
Status Date:	04/01/1988
Global Id:	T0606501145
Status:	Open - Site Assessment
Status Date:	05/21/1993
Global Id:	T0606501145
Status:	Open - Verification Monitoring
Status Date:	04/25/1999

LUST REG 9:

Region:	9
Status:	Case Closed
Case Number:	9UT758
Local Case:	9000000654
Substance:	TCE
Qty Leaked:	Not reported
Abate Method:	Pump and Treat Ground Water - generally employed to remove dissolved contaminants
Local Agency:	Riverside
How Found:	Tank Closure
How Stopped:	Close Tank
Source:	Unknown
Cause:	Unknown
Lead Agency:	Regional Board
Case Type:	Aquifer affected
Date Found:	06/08/1987
Date Stopped:	06/08/1987
Confirm Date:	/ /
Submit Workplan:	Not reported
Prelim Assess:	04/01/1988
Desc Pollution:	5/21/93
Remed Plan:	09/11/1998
Remed Action:	3/1/99
Began Monitor:	4/25/99
Release Date:	06/08/1987

BORG-WARNER CORPORATION (Continued) **S102425557**

Enforce Date:	2/18/88
Closed Date:	8/11/99
Enforce Type:	Cleanup and Abatement Orders
Pilot Program:	UST
Basin Number:	902.32
GW Depth:	6
Beneficial Use:	Municipal groundwater use
NPDES Number:	Not reported
Priority:	1A
File Dispn:	Not reported
Interim Remedial Actions:	Yes
Cleanup and Abatement order Number:	88-026
Waste Discharge Requirement Number:	94-169

EMI:

Year:	1990
County Code:	33
Air Basin:	SC
Facility ID:	58374
Air District Name:	SC
SIC Code:	3599
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

ENF:

Region:	9
Facility Id:	210956
Agency Name:	Not reported
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	33.49905
Place Longitude:	-117.15391
SIC Code 1:	5085
SIC Desc 1:	Industrial Supplies
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1

BORG-WARNER CORPORATION (Continued) **S102425557**

Source Of Facility:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	Not reported
Program Category1:	Not reported
Program Category2:	WDR
# Of Programs:	Not reported
WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Not reported
Status Date:	Not reported
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	219805
Region:	9
Order / Resolution Number:	R9-1999-0049-1
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	08/11/1999
Adoption/Issuance Date:	Not reported
Achieve Date:	1999-08-11
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000654
Description:	Not reported
Program:	WDR
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0

BORG-WARNER CORPORATION (Continued) **S102425557**

Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	9
Facility Id:	210956
Agency Name:	Not reported
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	33.49905
Place Longitude:	-117.15391
SIC Code 1:	5085
SIC Desc 1:	Industrial Supplies
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	Not reported
Program Category1:	Not reported
Program Category2:	WDR
# Of Programs:	Not reported
WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Not reported
Status Date:	Not reported

BORG-WARNER CORPORATION (Continued) **S102425557**

Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	220531
Region:	9
Order / Resolution Number:	LT880218
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	02/18/1988
Adoption/Issuance Date:	Not reported
Achieve Date:	1999-08-11
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000654
Description:	UNKNOWN
Program:	WDR
Latest Milestone Completion Date:	1999-08-11
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

HIST CORTESE:

Region:	CORTESE
Facility County Code:	33
Reg By:	WBC&D
Reg Id:	9 000000654

Region:	CORTESE
Facility County Code:	33
Reg By:	LTNKA
Reg Id:	9UT758

CIWQS:

Agency:	Borg Warner Security Corporation
Agency Address:	200 South Michigan Avenue, Chicago, IL 60604
Place/Project Type:	Other
SIC/NAICS:	5085
Region:	9
Program:	WDRNONMUNIPRCS
Regulatory Measure Status:	Historical

BORG-WARNER CORPORATION (Continued) **S102425557**

Regulatory Measure Type:	WDR
Order Number:	99-049
WDID:	9 000000654
NPDES Number:	Not reported
Adoption Date:	08/12/1999
Effective Date:	08/12/1999
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	0
Major/Minor:	Not reported
Complexity:	B
TTWQ:	2
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.49905
Longitude:	-117.15391

CERS TANKS:

Site ID:	250744
CERS ID:	T0606501145
Site Name:	BORG WARNER SECURITY CORPORATION
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	LAURIE A. WALSH - SAN DIEGO RWQCB (REGION 9)
Entity Title:	Not reported
Affiliation Address:	2375 NORTHSIDE DRIVE, SUITE 100
Affiliation City:	SAN DIEGO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	6195213373

Site ID:	309856
CERS ID:	210956
Site Name:	BW/IP INTERNATIONAL
CERS Description:	Tanks & Ground Water Clean Up

Enforcement Action:

Site ID:	309856
Site Name:	BW/IP International
Site Address:	27941 FRONT
Site City:	TEMECULA
Site Zip:	92590
Enf Action Date:	02-18-1988
Enf Action Type:	Clean-up and Abatement Order
Enf Action Description:	Clean-up and Abatement Order
Enf Action Notes:	Not reported
Enf Action Division:	Water Boards
Enf Action Program:	UNSPEC
Enf Action Source:	CIWQS

Site ID:	309856
Site Name:	BW/IP International
Site Address:	27941 FRONT
Site City:	TEMECULA

BORG-WARNER CORPORATION (Continued) **S102425557**

Site Zip:	92590
Enf Action Date:	08-11-1999
Enf Action Type:	Clean-up and Abatement Order
Enf Action Description:	Clean-up and Abatement Order
Enf Action Notes:	Not reported
Enf Action Division:	Water Boards
Enf Action Program:	UNSPEC
Enf Action Source:	CIWQS

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6 SSW 1/2-1 0.760 mi. 4015 ft. | **PICHEL INDUSTRIES INC.** **28007 FRONT ST** **TEMECULA, CA 90082** | **LUST** **HIST CORTESE** **Notify 65** **CERS** | **S100179472** **N/A**

Relative: Lower

Actual: 1011 ft.

LUST:

Lead Agency:	SAN DIEGO RWQCB (REGION 9)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606501119
Global Id:	T0606501119
Latitude:	33.4908171
Longitude:	-117.1460163
Status:	Completed - Case Closed
Status Date:	02/28/1991
Case Worker:	Not reported
RB Case Number:	9UT1504
Local Agency:	RIVERSIDE COUNTY LOP
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Nickel
Site History:	Not reported

LUST:

Global Id:	T0606501119
Contact Type:	Local Agency Caseworker
Contact Name:	Riverside County LOP
Organization Name:	RIVERSIDE COUNTY LOP
Address:	3880 LEMON ST SUITE 200
City:	RIVERSIDE
Email:	Not reported
Phone Number:	9519558980

LUST:

Global Id:	T0606501119
Action Type:	Other
Date:	08/30/1989
Action:	Leak Reported
Global Id:	T0606501119
Action Type:	Other
Date:	08/21/1989
Action:	Leak Discovery
Global Id:	T0606501119
Action Type:	Other
Date:	08/21/1989

PICHEL INDUSTRIES INC. (Continued) **S100179472**

Action: Leak Stopped

LUST:

Global Id: T0606501119
Status: Completed - Case Closed
Status Date: 02/28/1991

Global Id: T0606501119
Status: Open - Case Begin Date
Status Date: 08/21/1989

Global Id: T0606501119
Status: Open - Remediation
Status Date: 06/01/1990

Global Id: T0606501119
Status: Open - Remediation
Status Date: 06/15/1990

Global Id: T0606501119
Status: Open - Site Assessment
Status Date: 08/21/1989

Global Id: T0606501119
Status: Open - Site Assessment
Status Date: 04/27/1990

Global Id: T0606501119
Status: Open - Site Assessment
Status Date: 06/01/1990

HIST CORTESE:

Region: CORTESE
Facility County Code: 33
Reg By: LTNKA
Reg Id: 9UT1504

NOTIFY 65:

Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported

CERS TANKS:

Site ID: 217645
CERS ID: T0606501119
Site Name: PICHEL INDUSTRIES
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc: Local Agency Caseworker
Entity Name: Riverside County LOP - RIVERSIDE COUNTY LOP

PICHEL INDUSTRIES INC. (Continued) **S100179472**

Entity Title:	Not reported
Affiliation Address:	3880 LEMON ST SUITE 200
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9519558980

7
South
1/2-1
0.873 mi.
4609 ft.

Relative:
Lower

Actual:
1026 ft.

ARCO #3012
27641 YNEZ RD
TEMECULA, CA 92590

LUST **S100231600**
ENF **N/A**
HIST CORTESE
Notify 65
CIWQS
CERS

LUST:

Lead Agency:	SAN DIEGO RWQCB (REGION 9)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606501111
Global Id:	T0606501111
Latitude:	33.5032672887946
Longitude:	-117.149386703968
Status:	Completed - Case Closed
Status Date:	05/07/2012
Case Worker:	SM
RB Case Number:	9UT1031
Local Agency:	Not reported
File Location:	Regional Board
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	This site is enrolled under general WDR R9-2008-0138 for reinjection of treated groundwater from a VOC cleanup site. Environmental assessment and remediation activities related to petroleum hydrocarbon impact in soul and groundwater have been in progress at the site since approximately 1987. Environmental activities at the site since 1999 have include completion of assessment, initiation of soil and groundwater remediation and preparation of a site conceptual model and a corrective action plan. For more information see the Quarterly Report for WDR General Permit under the Site Documents tab.

LUST:

Global Id:	T0606501111
Contact Type:	Regional Board Caseworker
Contact Name:	SEAN MCCLAIN
Organization Name:	SAN DIEGO RWQCB (REGION 9)
Address:	2375 NORTHSIDE DRIVE, SUITE 100
City:	SAN DIEGO
Email:	sean.mcclain@waterboards.ca.gov
Phone Number:	6195213374

LUST:

Global Id:	T0606501111
Action Type:	RESPONSE
Date:	01/30/2007
Action:	Monitoring Report - Quarterly

ARCO #3012 (Continued) **S100231600**

Global Id: T0606501111
Action Type: RESPONSE
Date: 10/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 01/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 10/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 04/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 07/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 07/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 10/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 01/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 04/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 10/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 01/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE

ARCO #3012 (Continued) **S100231600**

Date: 04/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 04/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 01/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 10/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 07/30/2006
Action: Remedial Progress Report

Global Id: T0606501111
Action Type: RESPONSE
Date: 07/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 04/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 07/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 01/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 04/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 04/30/2006
Action: Remedial Progress Report

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 01/22/2008
Action: Staff Letter

ARCO #3012 (Continued) **S100231600**

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 11/17/2003
Action: Waste Discharge Requirements

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 02/26/2003
Action: * Verbal Communication

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 02/11/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0606501111
Action Type: Other
Date: 08/19/1988
Action: Leak Reported

Global Id: T0606501111
Action Type: RESPONSE
Date: 04/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 10/30/2006
Action: NPDES / WDR Reports

Global Id: T0606501111
Action Type: RESPONSE
Date: 07/31/2006
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 03/28/2009
Action: Verbal Enforcement

Global Id: T0606501111
Action Type: RESPONSE
Date: 04/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 07/30/2007
Action: NPDES / WDR Reports

Global Id: T0606501111
Action Type: RESPONSE
Date: 04/30/2007
Action: NPDES / WDR Reports

Global Id: T0606501111
Action Type: RESPONSE

ARCO #3012 (Continued) **S100231600**

Date: 07/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 07/25/1990
Action: * Historical Enforcement

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 11/16/2009
Action: Staff Letter

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 08/03/2009
Action: Staff Letter

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 07/29/2009
Action: Staff Letter

Global Id: T0606501111
Action Type: RESPONSE
Date: 10/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 07/31/2002
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 02/14/2002
Action: Clean-up and Abatement Order

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 01/31/2002
Action: * Verbal Communication

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 12/04/2001
Action: * Verbal Communication

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 02/28/2005
Action: Site Visit / Inspection / Sampling

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 03/29/2005
Action: * Verbal Communication

ARCO #3012 (Continued) **S100231600**

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 03/06/2007
Action: Site Visit / Inspection / Sampling

Global Id: T0606501111
Action Type: REMEDIATION
Date: 01/01/2001
Action: Pump & Treat (P&T) Groundwater

Global Id: T0606501111
Action Type: REMEDIATION
Date: 10/16/1993
Action: Excavation

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 02/17/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 02/17/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 07/16/2009
Action: Staff Letter

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 01/31/2001
Action: Referral to Regional Board - #Riverside County Case File

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 04/05/2012
Action: Notification - Public Notice of Case Closure

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 04/05/2012
Action: Notification - Fee Title Owners Notice

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 05/07/2012
Action: Closure/No Further Action Letter

Global Id: T0606501111
Action Type: RESPONSE
Date: 01/20/2009
Action: Other Workplan

Global Id: T0606501111
Action Type: RESPONSE

ARCO #3012 (Continued) **S100231600**

Date: 01/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 03/28/2009
Action: Other Workplan

Global Id: T0606501111
Action Type: RESPONSE
Date: 07/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 01/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 07/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 10/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 04/30/2010
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 08/17/2009
Action: Other Workplan

Global Id: T0606501111
Action Type: RESPONSE
Date: 01/30/2010
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 11/21/2001
Action: Staff Letter

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 09/24/2002
Action: Staff Letter - #R9-2002-318

Global Id: T0606501111
Action Type: REMEDIATION
Date: 04/20/2007
Action: Soil Vapor Extraction (SVE)

ARCO #3012 (Continued) **S100231600**

Global Id: T0606501111
Action Type: REMEDIATION
Date: 06/20/2002
Action: Pump & Treat (P&T) Groundwater

Global Id: T0606501111
Action Type: REMEDIATION
Date: 03/17/1992
Action: Soil Vapor Extraction (SVE)

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 06/29/2005
Action: Site Visit / Inspection / Sampling

Global Id: T0606501111
Action Type: REMEDIATION
Date: 07/01/2009
Action: Pump & Treat (P&T) Groundwater

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 01/31/2001
Action: File review - #RCDEH upload site file 5/1/2015

Global Id: T0606501111
Action Type: RESPONSE
Date: 07/30/2009
Action: NPDES / WDR Reports

Global Id: T0606501111
Action Type: RESPONSE
Date: 04/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 10/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 04/30/2002
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 04/30/2002
Action: Soil and Water Investigation Report

Global Id: T0606501111
Action Type: RESPONSE
Date: 12/02/2002
Action: Other Report / Document

Global Id: T0606501111
Action Type: RESPONSE

ARCO #3012 (Continued) **S100231600**

Date: 10/07/2002
Action: Other Workplan

Global Id: T0606501111
Action Type: RESPONSE
Date: 03/15/2002
Action: Soil and Water Investigation Workplan

Global Id: T0606501111
Action Type: REMEDIATION
Date: 01/16/2001
Action: Free Product Removal

Global Id: T0606501111
Action Type: REMEDIATION
Date: 01/20/2009
Action: Pump & Treat (P&T) Groundwater

Global Id: T0606501111
Action Type: REMEDIATION
Date: 10/01/2009
Action: Pump & Treat (P&T) Groundwater

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 06/28/2006
Action: Site Visit / Inspection / Sampling

Global Id: T0606501111
Action Type: Other
Date: 08/19/1988
Action: Leak Began

Global Id: T0606501111
Action Type: RESPONSE
Date: 01/30/2002
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 01/30/2000
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 10/31/2002
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 01/17/2003
Action: Soil and Water Investigation Report

Global Id: T0606501111
Action Type: RESPONSE
Date: 09/30/2002
Action: Other Workplan

ARCO #3012 (Continued) **S100231600**

Global Id: T0606501111
Action Type: RESPONSE
Date: 03/30/2002
Action: Interim Remedial Action Plan

Global Id: T0606501111
Action Type: RESPONSE
Date: 10/31/2002
Action: Other Workplan

Global Id: T0606501111
Action Type: RESPONSE
Date: 01/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 04/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 04/20/2005
Action: * Verbal Communication

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 08/26/2005
Action: * Verbal Communication

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 06/20/2006
Action: Site Visit / Inspection / Sampling

Global Id: T0606501111
Action Type: Other
Date: 08/19/1988
Action: Leak Discovery

Global Id: T0606501111
Action Type: RESPONSE
Date: 01/21/2003
Action: Soil and Water Investigation Report

Global Id: T0606501111
Action Type: RESPONSE
Date: 01/31/2003
Action: Other Report / Document

Global Id: T0606501111
Action Type: RESPONSE
Date: 07/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE

ARCO #3012 (Continued) **S100231600**

Date: 04/19/2004
Action: Other Report / Document

Global Id: T0606501111
Action Type: RESPONSE
Date: 04/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 03/26/2004
Action: Other Report / Document

Global Id: T0606501111
Action Type: RESPONSE
Date: 09/15/2003
Action: Other Report / Document

Global Id: T0606501111
Action Type: RESPONSE
Date: 03/26/2004
Action: Well Installation Report

Global Id: T0606501111
Action Type: RESPONSE
Date: 01/31/2004
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 06/02/2003
Action: Other Report / Document

Global Id: T0606501111
Action Type: RESPONSE
Date: 01/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 11/17/2003
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0606501111
Action Type: RESPONSE
Date: 06/30/2003
Action: Soil and Water Investigation Report

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 06/10/2005
Action: Staff Letter - #R9-2005-0178

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 07/17/2002
Action: Staff Letter

ARCO #3012 (Continued) **S100231600**

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 10/07/2003
Action: Meeting

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 09/02/2003
Action: * Verbal Communication

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 10/22/2003
Action: Clean-up and Abatement Order

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 11/17/2003
Action: Notice of Public Hearing / Board Action

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 03/14/2008
Action: Staff Letter

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 02/25/2008
Action: Verbal Enforcement

Global Id: T0606501111
Action Type: RESPONSE
Date: 04/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 10/30/2003
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0606501111
Action Type: RESPONSE
Date: 10/30/2003
Action: Other Report / Document

Global Id: T0606501111
Action Type: RESPONSE
Date: 07/31/2004
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 03/23/2004
Action: Other Report / Document

Global Id: T0606501111
Action Type: RESPONSE

ARCO #3012 (Continued) **S100231600**

Date: 03/08/2004
Action: Other Report / Document

Global Id: T0606501111
Action Type: RESPONSE
Date: 10/31/2004
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 01/31/2005
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 10/31/2004
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 11/02/2004
Action: Remedial Progress Report

Global Id: T0606501111
Action Type: RESPONSE
Date: 04/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 02/24/2008
Action: Unknown

Global Id: T0606501111
Action Type: RESPONSE
Date: 01/31/2005
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 09/10/2003
Action: Staff Letter

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 10/23/2002
Action: Site Visit / Inspection / Sampling

Global Id: T0606501111
Action Type: Other
Date: 08/19/1988
Action: Leak Stopped

Global Id: T0606501111
Action Type: RESPONSE
Date: 10/30/2004
Action: Monitoring Report - Quarterly

ARCO #3012 (Continued) **S100231600**

Global Id: T0606501111
Action Type: RESPONSE
Date: 01/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0606501111
Action Type: RESPONSE
Date: 04/30/2005
Action: Remedial Progress Report

Global Id: T0606501111
Action Type: RESPONSE
Date: 11/02/2004
Action: Remedial Progress Report

Global Id: T0606501111
Action Type: RESPONSE
Date: 03/27/2012
Action: Correspondence

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 09/17/2003
Action: * Verbal Communication

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 09/10/2003
Action: * Verbal Communication

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 02/07/2006
Action: File review

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 10/22/2002
Action: Site Visit / Inspection / Sampling

Global Id: T0606501111
Action Type: ENFORCEMENT
Date: 05/27/2009
Action: Staff Letter

LUST:
Global Id: T0606501111
Status: Completed - Case Closed
Status Date: 05/07/2012

Global Id: T0606501111
Status: Open - Case Begin Date
Status Date: 08/19/1988

Global Id: T0606501111
Status: Open - Remediation
Status Date: 02/20/2001

ARCO #3012 (Continued) **S100231600**

Global Id: T0606501111
Status: Open - Remediation
Status Date: 04/18/2002

Global Id: T0606501111
Status: Open - Remediation
Status Date: 08/21/2003

Global Id: T0606501111
Status: Open - Remediation
Status Date: 11/17/2003

Global Id: T0606501111
Status: Open - Remediation
Status Date: 11/02/2004

Global Id: T0606501111
Status: Open - Remediation
Status Date: 04/18/2005

Global Id: T0606501111
Status: Open - Remediation
Status Date: 04/21/2006

Global Id: T0606501111
Status: Open - Site Assessment
Status Date: 08/19/1988

Global Id: T0606501111
Status: Open - Site Assessment
Status Date: 03/15/2002

Global Id: T0606501111
Status: Open - Verification Monitoring
Status Date: 03/27/2001

Global Id: T0606501111
Status: Open - Verification Monitoring
Status Date: 05/08/2001

Global Id: T0606501111
Status: Open - Verification Monitoring
Status Date: 10/15/2001

Global Id: T0606501111
Status: Open - Verification Monitoring
Status Date: 12/05/2001

Global Id: T0606501111
Status: Open - Verification Monitoring
Status Date: 05/21/2010

RIVERSIDE CO. LUST:
Region: RIVERSIDE
Facility ID: 88778
Employee: Winters

ARCO #3012 (Continued) **S100231600**

Site Closed:	Referred to Water Board
Case Type:	Drinking Water Aquifer affected
Facility Status:	0
Casetype Decode:	An Aquifer used for Drinking Water supply has been contaminated.
Fstatus Decode:	Not reported

ENF:

Region:	9
Facility Id:	206209
Agency Name:	Not reported
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	5541
SIC Desc 1:	Gasoline Service Stations
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	Not reported
Reg Measure Id:	146762
Reg Measure Type:	NPDES Permits
Region:	9
Order #:	96-041
Npdes# CA#:	CAG919002
Major-Minor:	Minor
Npdes Type:	OTH
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/28/1992

ARCO #3012 (Continued) **S100231600**

Effective Date:	06/13/1996
Expiration/Review Date:	06/12/2001
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	G
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	239787
Region:	9
Order / Resolution Number:	R9-2002-0031
Enforcement Action Type:	Admin Civil Liability
Effective Date:	03/13/2002
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000941
Description:	Order adopted accepting ARCO's waiver of hearing and payment of $24,000 ACL for mandatory minimum penalties.
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	2003-06-16
# Of Programs1:	1
Total Assessment Amount:	24000
Initial Assessed Amount:	0
Liability $ Amount:	24000
Project $ Amount:	0
Liability $ Paid:	24000
Project $ Completed:	0
Total $ Paid/Completed Amount:	24000

Region:	9
Facility Id:	206209
Agency Name:	ARCO Petroleum Products Company La Palma (BP)
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	5541
SIC Desc 1:	Gasoline Service Stations
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported

ARCO #3012 (Continued) **S100231600**

NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.40000000
Threat To Water Quality:	3
Complexity:	A
Pretreatment:	Not reported
Facility Waste Type:	Miscellaneous
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000941
Reg Measure Id:	214049
Reg Measure Type:	Enrollee
Region:	9
Order #:	01-096
Npdes# CA#:	CAG919002
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/25/2001
Effective Date:	04/25/2001
Expiration/Review Date:	Not reported
Termination Date:	02/20/2004
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	237208
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	Not reported
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Not reported
Title:	Enforcement - 9 000000941
Description:	Not reported

ARCO #3012 (Continued) **S100231600**

Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	9
Facility Id:	206209
Agency Name:	ARCO Petroleum Products Company La Palma (BP)
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	5541
SIC Desc 1:	Gasoline Service Stations
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.40000000
Threat To Water Quality:	3
Complexity:	A
Pretreatment:	Not reported
Facility Waste Type:	Miscellaneous
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000941
Reg Measure Id:	214049
Reg Measure Type:	Enrollee
Region:	9
Order #:	01-096
Npdes# CA#:	CAG919002
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported

ARCO #3012 (Continued) **S100231600**

301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/25/2001
Effective Date:	04/25/2001
Expiration/Review Date:	Not reported
Termination Date:	02/20/2004
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	237207
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	Not reported
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Not reported
Title:	Enforcement - 9 000000941
Description:	Not reported
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	9
Facility Id:	206209
Agency Name:	ARCO Petroleum Products Company La Palma (BP)
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	5541
SIC Desc 1:	Gasoline Service Stations
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported

ARCO #3012 (Continued) **S100231600**

NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.40000000
Threat To Water Quality:	3
Complexity:	A
Pretreatment:	Not reported
Facility Waste Type:	Miscellaneous
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000941
Reg Measure Id:	214049
Reg Measure Type:	Enrollee
Region:	9
Order #:	01-096
Npdes# CA#:	CAG919002
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/25/2001
Effective Date:	04/25/2001
Expiration/Review Date:	Not reported
Termination Date:	02/20/2004
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	238655
Region:	9
Order / Resolution Number:	R9-2001-335
Enforcement Action Type:	Admin Civil Liability
Effective Date:	12/19/2001
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported

ARCO #3012 (Continued) **S100231600**

Status:	Withdrawn
Title:	Enforcement - 9 000000941
Description:	Complaint issued for violations of Order 96-41 in the amount of $27,000. Officially for mandatory minimum penalties, but issued as an administrative civil liability.
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	9
Facility Id:	206209
Agency Name:	ARCO Petroleum Products Company La Palma (BP)
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	All other facilities
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	5541
SIC Desc 1:	Gasoline Service Stations
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.40000000
Threat To Water Quality:	3
Complexity:	A
Pretreatment:	Not reported
Facility Waste Type:	Miscellaneous
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000941
Reg Measure Id:	214049
Reg Measure Type:	Enrollee
Region:	9
Order #:	01-096

ARCO #3012 (Continued) **S100231600**

Npdes# CA#:	CAG919002
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	04/25/2001
Effective Date:	04/25/2001
Expiration/Review Date:	Not reported
Termination Date:	02/20/2004
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	238449
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	12/10/2001
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	12/10/2001
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000941
Description:	See also Viol.# 85181, Enf. # 31429. Didn't sample for several constituents.
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

HIST CORTESE:

Region:	CORTESE
Facility County Code:	33
Reg By:	LTNKA
Reg Id:	9UT1031

NOTIFY 65:

Date Reported:	Not reported
Staff Initials:	Not reported

ARCO #3012 (Continued) **S100231600**

Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported

CIWQS:

Agency:	ARCO Petroleum Products Company La Palma (BP)
Agency Address:	6 Centerpointe Drive Lpr6-161, La Palma, CA 90623-1066
Place/Project Type:	Other
SIC/NAICS:	5541
Region:	9
Program:	NPDNONMUNIPRCS, WDRNONMUNIPRCS
Regulatory Measure Status:	Historical
Regulatory Measure Type:	Enrollee
Order Number:	R9-2008-0138
WDID:	9 000001170
NPDES Number:	Not reported
Adoption Date:	11/18/2003
Effective Date:	11/18/2003
Termination Date:	06/20/2012
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	B
TTWQ:	3
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	Not reported
Longitude:	Not reported

CERS TANKS:

Site ID:	202819
CERS ID:	T0606501111
Site Name:	ARCO #3012
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	SEAN MCCLAIN - SAN DIEGO RWQCB (REGION 9)
Entity Title:	Not reported
Affiliation Address:	2375 NORTHSIDE DRIVE, SUITE 100
Affiliation City:	SAN DIEGO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	6195213374

8 SSW 1/2-1 0.889 mi. 4696 ft. | **TEMECULA VALLEY PIPE & SUPPLY**
28074 DEL RIO
TEMECULA, CA 90082 | **Notify 65** | **S100179238**
N/A

Relative: Lower
Actual: 1007 ft.

NOTIFY 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Issue Date:	Not reported
Incident Description:	Not reported

---

9 SW 1/2-1 0.972 mi. 5133 ft. | **FORMER RANCHO CA AIRPORT ***
27985 DIAZ RD
TEMECULA, CA 92590 | **LUST**
HIST CORTESE
Notify 65
CERS | **S100231507**
N/A

Relative: Lower
Actual: 1008 ft.

LUST:

Lead Agency:	SAN DIEGO RWQCB (REGION 9)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606501118
Global Id:	T0606501118
Latitude:	33.5032490707707
Longitude:	-117.160996106954
Status:	Completed - Case Closed
Status Date:	09/09/1998
Case Worker:	Not reported
RB Case Number:	9UT1434
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	5/16/89 2-10000 GAL TANKS REMVD. 8/13/91 9 GWM WELLS SAMPLD:HI 250 PPB Benzene. Free Product PRESENT IN WELLS NEAR FORMER TANK PIT (3"). RB REQUIRING MONITORING REPORTS-1ST DUE 1/31/92- - Historical LUSTIS Cleanup Action : Excavate and Dispose, Pump and Treat Groundwater remedies.

LUST:

Global Id:	T0606501118
Action Type:	Other
Date:	05/23/1989
Action:	Leak Reported
Global Id:	T0606501118
Action Type:	ENFORCEMENT
Date:	03/01/1993
Action:	* Historical Enforcement
Global Id:	T0606501118
Action Type:	ENFORCEMENT
Date:	02/08/2002
Action:	* No Action
Global Id:	T0606501118

FORMER RANCHO CA AIRPORT * (Continued) **S100231507**

Action Type: Other
Date: 05/16/1989
Action: Leak Discovery

LUST:
Global Id: T0606501118
Status: Completed - Case Closed
Status Date: 09/09/1998

Global Id: T0606501118
Status: Open - Case Begin Date
Status Date: 05/16/1989

Global Id: T0606501118
Status: Open - Remediation
Status Date: 03/26/1993

Global Id: T0606501118
Status: Open - Remediation
Status Date: 01/01/1994

Global Id: T0606501118
Status: Open - Site Assessment
Status Date: 06/12/1989

Global Id: T0606501118
Status: Open - Site Assessment
Status Date: 06/28/1989

Global Id: T0606501118
Status: Open - Site Assessment
Status Date: 09/16/1991

Global Id: T0606501118
Status: Open - Verification Monitoring
Status Date: 11/22/1995

RIVERSIDE CO. LUST:
Region: RIVERSIDE
Facility ID: 89446
Employee: Whitehead
Site Closed: Referred to Water Board
Case Type: Ground water
Facility Status: 0
Casetype Decode: Groundwater is impacted
Fstatus Decode: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 33
Reg By: LTNKA
Reg Id: 9UT1434

NOTIFY 65:

FORMER RANCHO CA AIRPORT * (Continued) **S100231507**

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Issue Date:	Not reported
Incident Description:	Not reported

CERS TANKS:

Site ID:	204098
CERS ID:	T0606501118
Site Name:	FORMER RANCHO CA AIRPORT *
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Count: 4 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
RIVERSIDE COUNTY	S107541240		WINEVILLE, SW CORNER OF GAGELE		CDL
TEMECULA	S111213577	TEMECULA EDUCATION CENTER	NW CORNER DIDZ ROAD AND DENDY		ENF, CIWQS
TEMECULA	S121679168	TEMECULA POWER CTR I I	NW CORNER OF MARGARITA RD & N	92591	CIWQS
TEMECULA	S105092639	EXECUTIVE CLEANERS	43053 MARGARITA STE B109 & 110	92592	DRYCLEANERS

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: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/15/2019
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: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

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: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/29/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - 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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
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: 02/22/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 41

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/26/2019
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: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
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: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
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 identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
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 inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 21

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/13/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

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: Semi-Annually

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: Semi-Annually

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: Annually

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: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Semi-Annually

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: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
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
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Quarterly

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: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 11/07/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/03/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 34

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/19/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 48

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/12/2019
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: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program
This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
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: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites
Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
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: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 04/15/2019
Number of Days to Update: 52

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing
Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/04/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/11/2018
Number of Days to Update: 29

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 32

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
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: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 27

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 49

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
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: 10/24/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 40

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)
Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)
Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
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: 03/07/2019
Date Data Arrived at EDR: 04/03/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 50

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
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
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 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: 05/13/2019
Next Scheduled EDR Contact: 08/26/2019
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: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/07/2019
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
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: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/22/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
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: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/24/2019
Next Scheduled EDR Contact: 08/05/2019
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: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/25/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/19/2019
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: 03/20/2019
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 34

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

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: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 06/17/2019
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: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
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: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
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: 04/02/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 51

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
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: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 30

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
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: 04/11/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/27/2018
Date Data Arrived at EDR: 02/27/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 33

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/10/2019
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: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
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: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
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: 03/27/2019
Date Data Arrived at EDR: 03/28/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 34

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/21/2019
Next Scheduled EDR Contact: 06/24/2019
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: 02/15/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 10

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
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: 04/07/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/09/2019
Next Scheduled EDR Contact: 07/22/2019
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: 02/19/2019
Date Data Arrived at EDR: 02/21/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 39

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
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
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 04/18/2019
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 11

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 01/23/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 34

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 47

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
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: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
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: 03/19/2019
Date Data Arrived at EDR: 03/22/2019
Date Made Active in Reports: 04/09/2019
Number of Days to Update: 18

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/23/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/22/2019
Next Scheduled EDR Contact: 07/01/2019
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: 11/01/2018
Date Data Arrived at EDR: 11/02/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 41

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 01/10/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 41

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
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: 02/15/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 14

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 37

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 56

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/09/2019
Next Scheduled EDR Contact: 07/22/2019
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: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 23

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
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: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/05/2019
Number of Days to Update: 31

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
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: 03/18/2019
Date Data Arrived at EDR: 03/19/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 41

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
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: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
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: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
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: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
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: 03/05/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
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: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

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: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
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

RGA LF: Recovered Government Archive Solid Waste Facilities List
The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank
The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites
A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 59

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 58

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 01/24/2019
Date Data Arrived at EDR: 01/25/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 39

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
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: 02/14/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 17

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/29/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 01/16/2019
Date Data Arrived at EDR: 02/05/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 28

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 04/29/2019
Next Scheduled EDR Contact: 08/12/2019
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: 04/10/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 19

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
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: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/20/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/18/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 41

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 29

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
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: 02/14/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 14

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/12/2019
Number of Days to Update: 28

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/17/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 12/19/2018
Date Data Arrived at EDR: 01/10/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 56

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/14/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/16/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
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: 01/30/2019
Date Data Arrived at EDR: 02/01/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 34

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/16/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Semi-Annually

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: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Annually

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 28

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
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: 02/20/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 13

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/19/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 50

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 34

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/23/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 02/05/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 26

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 04/01/2019
Next Scheduled EDR Contact: 07/15/2019
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: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
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: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 14

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 01/25/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/13/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 26

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/08/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 26

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/05/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 31

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/07/2019
Next Scheduled EDR Contact: 08/19/2019
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: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/12/2019
Number of Days to Update: 42

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 01/14/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
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: 04/11/2019
Date Data Arrived at EDR: 04/12/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 18

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/29/2019
Date Data Arrived at EDR: 01/31/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 36

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 01/04/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 60

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 67

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 48

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
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: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 33

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
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: 03/06/2019
Date Data Arrived at EDR: 03/06/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 54

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

SAN DIEGO CO. SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/15/2019
Date Made Active in Reports: 03/14/2019
Number of Days to Update: 27

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
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: 03/04/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
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: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/23/2019
Number of Days to Update: 36

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 15

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
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: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Annually

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 01/30/2019
Date Data Arrived at EDR: 02/01/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 34

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
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: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
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: 03/05/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 53

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 27

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 03/18/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
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: 04/03/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 19

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 33

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/18/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 42

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 02/28/2019
Number of Days to Update: 35

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Annually

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

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: 12/26/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 42

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/05/2019
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: 02/26/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 21

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
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: 12/26/2018
Date Data Arrived at EDR: 01/03/2019
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 13

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 22

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
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: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/04/2019
Number of Days to Update: 20

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
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: 04/10/2019
Next Scheduled EDR Contact: 07/22/2019
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: 01/30/2019
Date Made Active in Reports: 02/14/2019
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/01/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/17/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/11/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
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 PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

TEMECULA ALMC
SE CORNER OF MARGARITA ROAD AND SOLANA WAY
TEMECULA, CA 92591

TARGET PROPERTY COORDINATES

Latitude (North):	33.516239 - 33˚ 30’ 58.46’’
Longitude (West):	117.149167 - 117˚ 8’ 57.00’’
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	486146.8
UTM Y (Meters):	3708336.8
Elevation:	1070 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5641304 MURRIETA, CA
Version Date:	2012
South Map:	5640254 TEMECULA, 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).

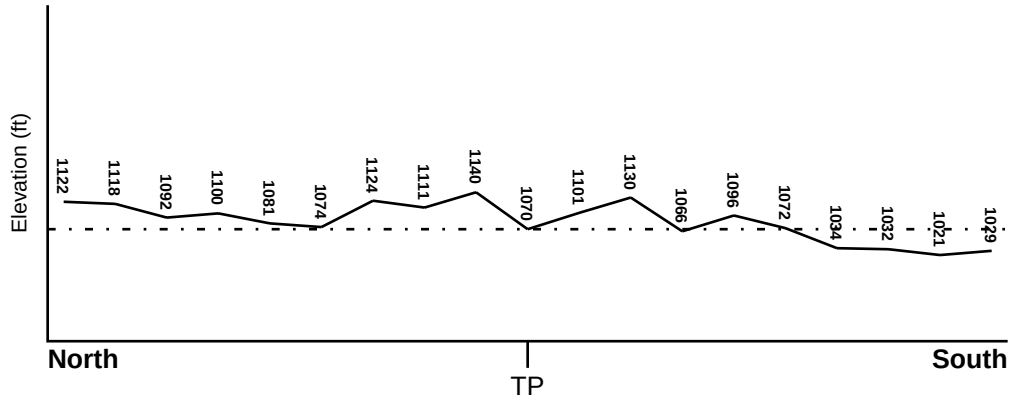
TOPOGRAPHIC INFORMATION

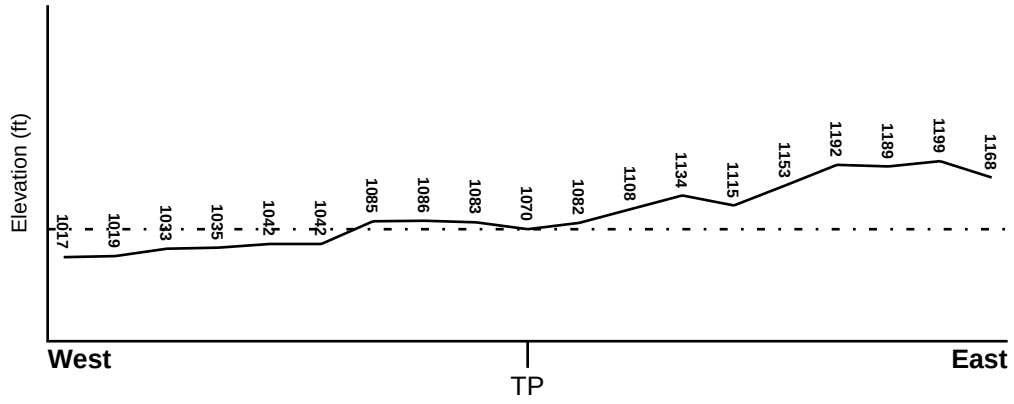
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 1070 ft.

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06065C2720G	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
Not Reported	

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
MURRIETA	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

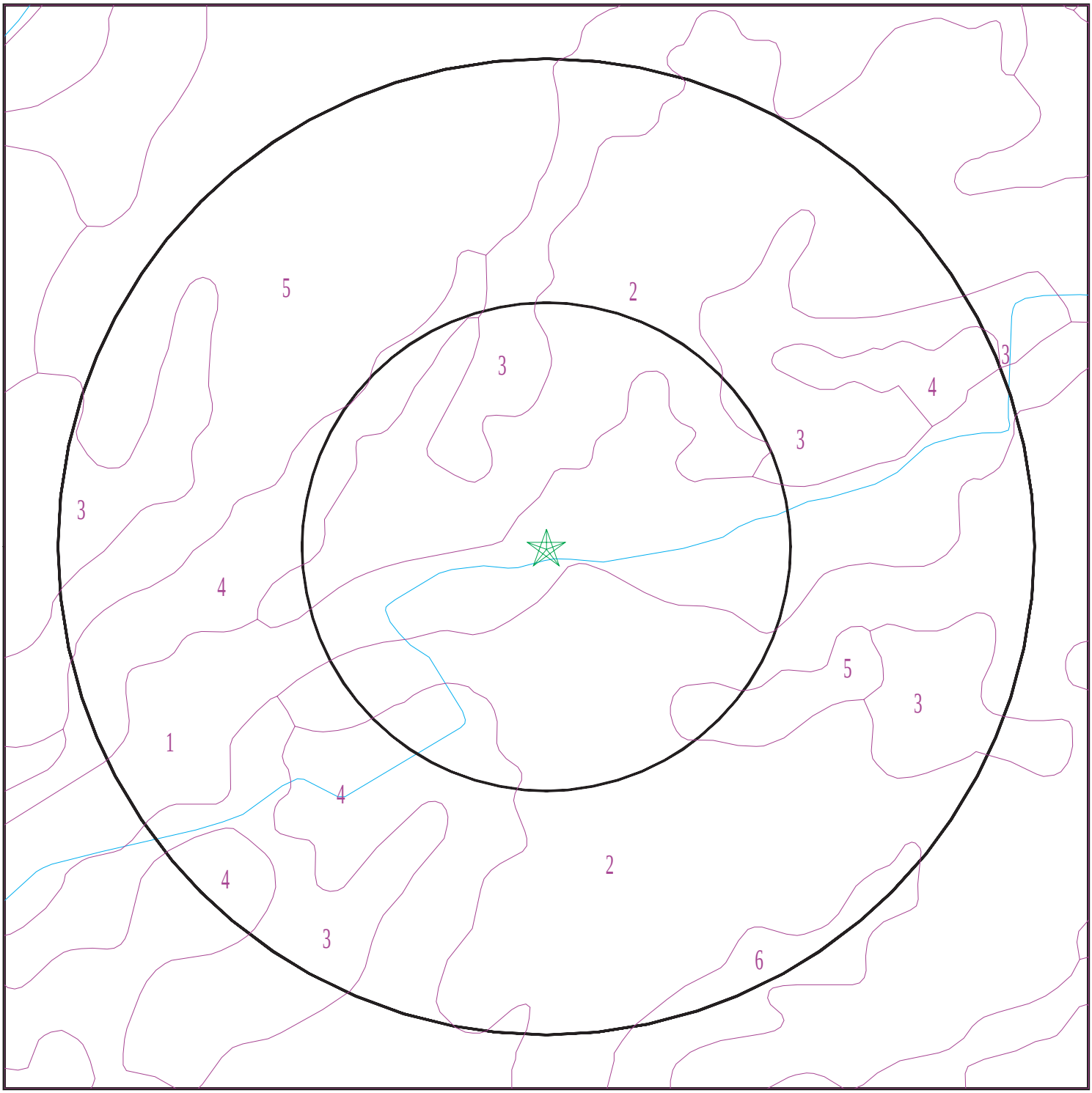
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5666141.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME: Temecula ALMC ADDRESS: SE Corner of Margarita Road and Solana Way TEMECULA CA 92591 LAT/LONG: 33.516239 / 117.149167	CLIENT: Partner Engineering and Science, Inc. CONTACT: Alex Flores INQUIRY #: 5666141.2s DATE: May 29, 2019 12:50 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: HANFORD

Soil Surface Texture: coarse sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	coarse sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.6
2	7 inches	40 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.6
3	40 inches	59 inches	stratified loamy sand to coarse sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: RAMONA

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
2	7 inches	16 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
3	16 inches	68 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
4	68 inches	74 inches	gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 3

Soil Component Name: ARLINGTON

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6
2	11 inches	24 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6
3	24 inches	35 inches	cemented	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6
4	35 inches	46 inches	coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 4

Soil Component Name: RAMONA

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
2	7 inches	16 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
3	16 inches	68 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
4	68 inches	74 inches	gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 5

Soil Component Name: ARLINGTON

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6
2	11 inches	24 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6
3	24 inches	35 inches	cemented	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6
4	35 inches	46 inches	coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 6

Soil Component Name: ARLINGTON

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6
2	5 inches	20 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6
3	20 inches	29 inches	cemented	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6
4	29 inches	59 inches	coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
3	USGS40000134334	1/4 - 1/2 Mile NNW
4	USGS40000134241	1/2 - 1 Mile South
A6	USGS40000134240	1/2 - 1 Mile SSE
7	USGS40000134236	1/2 - 1 Mile SSE
B8	USGS40000134304	1/2 - 1 Mile West
9	USGS40000134295	1/2 - 1 Mile West
B12	USGS40000134310	1/2 - 1 Mile West
13	USGS40000134216	1/2 - 1 Mile South
C15	USGS40000134380	1/2 - 1 Mile North
D17	USGS40000134307	1/2 - 1 Mile West
E18	USGS40000134376	1/2 - 1 Mile NNW
F19	USGS40000134214	1/2 - 1 Mile SSE
E22	USGS40000134381	1/2 - 1 Mile NNW
G24	USGS40000134357	1/2 - 1 Mile NW
F25	USGS40000134206	1/2 - 1 Mile SSE
F26	USGS40000134207	1/2 - 1 Mile SSE
H29	USGS40000134279	1/2 - 1 Mile WSW
G30	USGS40000134361	1/2 - 1 Mile NW
31	USGS40000134204	1/2 - 1 Mile SSE
I32	USGS40000134332	1/2 - 1 Mile WNW
H33	USGS40000134282	1/2 - 1 Mile West
G34	USGS40000134365	1/2 - 1 Mile NW
I35	USGS40000134330	1/2 - 1 Mile WNW
K39	USGS40000134405	1/2 - 1 Mile NNW
I40	USGS40000134340	1/2 - 1 Mile WNW
L46	USGS40000134364	1/2 - 1 Mile NE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

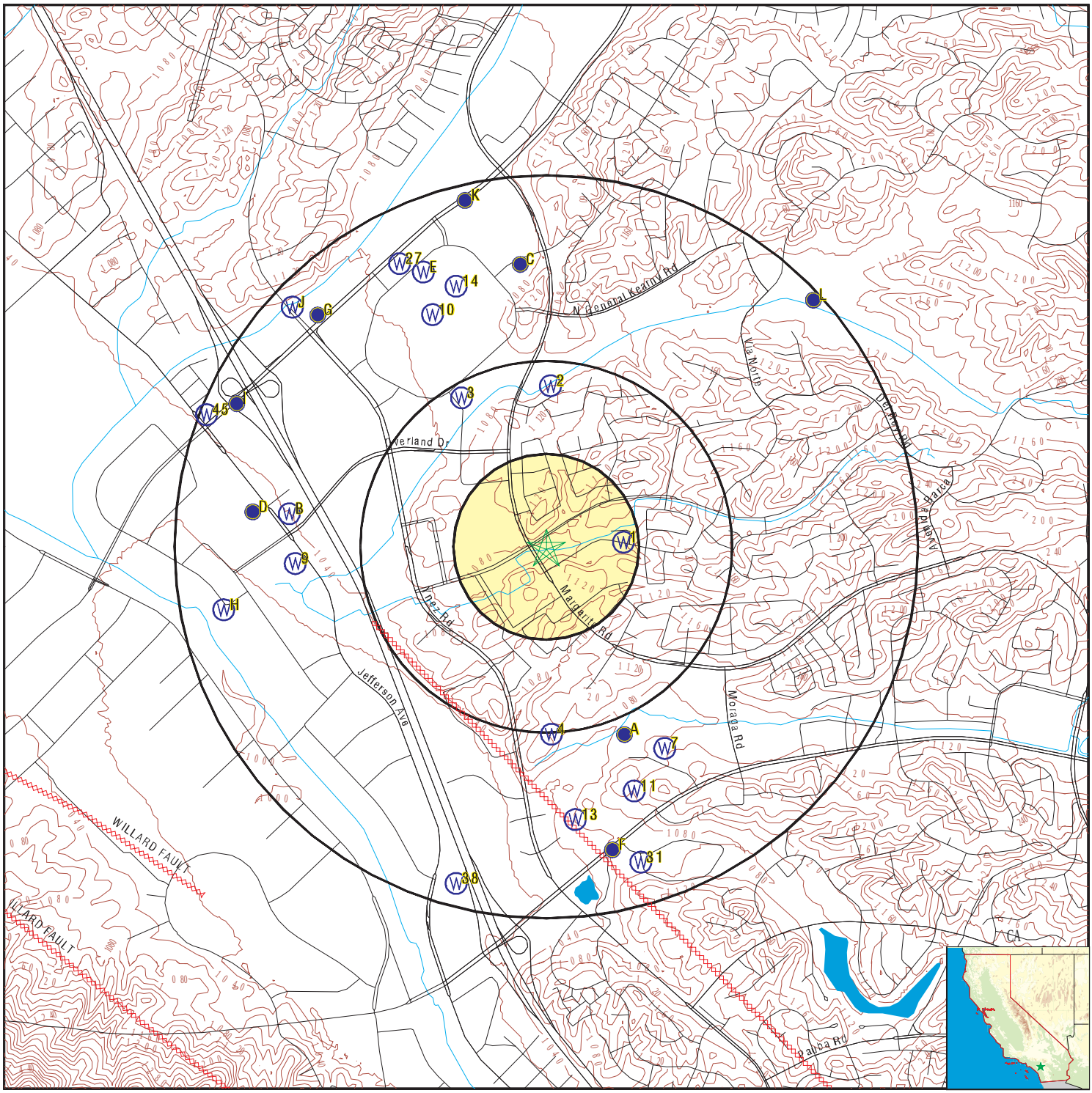
Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	7892	1/8 - 1/4 Mile East
2	7891	1/4 - 1/2 Mile North
A5	CADWR8000003439	1/2 - 1 Mile SSE
10	7884	1/2 - 1 Mile NNW
11	8638	1/2 - 1 Mile SSE
14	7882	1/2 - 1 Mile NNW
C16	CADWR8000003532	1/2 - 1 Mile North
D20	CADWR8000003485	1/2 - 1 Mile West
D21	CADWR8000003487	1/2 - 1 Mile West
F23	CADWR8000003411	1/2 - 1 Mile South
27	CADWR8000003533	1/2 - 1 Mile NNW
G28	CADWR8000003516	1/2 - 1 Mile NW
J36	CADWR8000003519	1/2 - 1 Mile NW
I37	CADWR8000003499	1/2 - 1 Mile WNW
38	8641	1/2 - 1 Mile SSW
K41	7880	1/2 - 1 Mile NNW
J42	CADWR8000003523	1/2 - 1 Mile NW
L43	CADWR8000003522	1/2 - 1 Mile NE
K44	CADWR8000003555	1/2 - 1 Mile NNW
45	CADWR8000003497	1/2 - 1 Mile WNW

PHYSICAL SETTING SOURCE MAP - 5666141.2s



0 1/4 1/2 1 Miles

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:	Temecula ALMC	CLIENT:	Partner Engineering and Science, Inc.
ADDRESS:	SE Corner of Margarita Road and Solana Way TEMECULA CA 92591	CONTACT:	Alex Flores
		INQUIRY #:	5666141.2s
LAT/LONG:	33.516239 / 117.149167	DATE:	May 29, 2019 12:50 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
1 **East** **1/8 - 1/4 Mile** **Higher**	**CA WELLS**	**7892**

Seq:	7892	Prim sta c:	07S/03W-36K01 S
Frds no:	3310038032	County:	33
District:	14	User id:	WAT
System no:	3310038	Water type:	G
Source nam:	WELL 128	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	333059.0	Longitude:	1170841.0
Precision:	2	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310038	System nam:	Rancho California Water District
Hqname:	Not Reported	Address:	P.O. Box 9017
City:	Temecula	State:	CA
Zip:	92589	Zip ext:	Not Reported
Pop serv:	68900	Connection:	20396
Area serve:	RANCHO CALIFORNIA		

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2 **North** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**7891**

Seq:	7891	Prim sta c:	07S/03W-35A01 S
Frds no:	3310038053	County:	33
District:	14	User id:	WAT
System no:	3310038	Water type:	G
Source nam:	WELL 205 (005)	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	333121.0	Longitude:	1170853.0
Precision:	2	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310038	System nam:	Rancho California Water District
Hqname:	Not Reported	Address:	P.O. Box 9017
City:	Temecula	State:	CA
Zip:	92589	Zip ext:	Not Reported
Pop serv:	68900	Connection:	20396
Area serve:	RANCHO CALIFORNIA		

Sample date:	05-JAN-18	Finding:	3.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	05-JAN-18	Finding:	310.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	10-OCT-17	Finding:	250.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	10-OCT-17	Finding:	3.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-JUL-17	Finding:	3.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-JUL-17	Finding:	310.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	20-APR-17	Finding:	3.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-APR-17	Finding:	280.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	19-OCT-16	Finding:	4.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-OCT-16	Finding:	280.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	12-JUL-16	Finding:	290.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	12-JUL-16	Finding:	3.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-APR-16	Finding:	3.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-APR-16	Finding:	310.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	20-JAN-16	Finding:	3.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-JAN-16	Finding:	220.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	22-OCT-15	Finding:	300.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	16-JUL-15	Finding:	330.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	22-APR-15	Finding:	260.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L

Dlr:	0.		
Sample date:	22-APR-15	Finding:	2.3
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	22-APR-15	Finding:	69.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	22-APR-15	Finding:	0.3
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	22-APR-15	Finding:	22.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	22-APR-15	Finding:	76.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	22-APR-15	Finding:	1.7
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	22-APR-15	Finding:	80.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	22-APR-15	Finding:	1.6
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	22-APR-15	Finding:	19.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	22-APR-15	Finding:	54.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	22-APR-15	Finding:	100.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	22-APR-15	Finding:	82.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	22-APR-15	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	22-APR-15	Finding:	490.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	22-APR-15	Finding:	150.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		

Sample date:	07-JAN-15	Finding:	340.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	09-OCT-14	Finding:	290.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	23-JUL-14	Finding:	3.2
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	03-JUL-14	Finding:	280.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	15-APR-14	Finding:	280.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	02-OCT-13	Finding:	280.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-13	Finding:	270.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JAN-13	Finding:	270.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	02-OCT-12	Finding:	240.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	17-JUL-12	Finding:	260.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	16-MAY-12	Finding:	2.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	24-APR-12	Finding:	45.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	24-APR-12	Finding:	260.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	24-APR-12	Finding:	2.9
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	24-APR-12	Finding:	120.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	24-APR-12	Finding:	3.9
Chemical:	ARSENIC	Report units:	UG/L

Dlr:	2.		
Sample date:	24-APR-12	Finding:	0.4
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	24-APR-12	Finding:	18.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	24-APR-12	Finding:	70.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	24-APR-12	Finding:	1.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-APR-12	Finding:	73.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-APR-12	Finding:	1.4
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-APR-12	Finding:	16.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	24-APR-12	Finding:	98.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	24-APR-12	Finding:	80.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	24-APR-12	Finding:	8.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	24-APR-12	Finding:	470.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	03-APR-12	Finding:	18.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-12	Finding:	64.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-12	Finding:	1.7
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-12	Finding:	69.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	03-APR-12	Finding:	53.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-12	Finding:	17.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	03-APR-12	Finding:	1.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-12	Finding:	470.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	03-APR-12	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	03-APR-12	Finding:	90.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-12	Finding:	110.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-12	Finding:	300.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-12	Finding:	3.7
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	03-APR-12	Finding:	120.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	03-APR-12	Finding:	2.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-APR-12	Finding:	0.3
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	12-JAN-12	Finding:	250.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

3
NNW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000134334**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007S003W35A001S	Type:	Well
Description:	GAMA SAN DIEGO SLOW	HUC:	18070302

Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19650823	Well Depth:	1000
Well Depth Units:	ft	Well Hole Depth:	1000
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1968-02-01
Feet below surface:	33.00	Feet to sea level:	Not Reported
Note:	Not Reported		

4
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000134241**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008S003W01P003S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19270101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

A5
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADWR8000003439**

State Well #:	08S03W01P002S	Station ID:	29597
Well Name:	RCWD 466	Well Use:	Unknown
Well Type:	Single Well	Well Depth:	820
Basin Name:	Temecula Valley	Well Completion Rpt #:	Not Reported

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A6
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000134240**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008S003W01P002S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19520101	Well Depth:	822
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1968-03-01
Feet below surface:	41.00	Feet to sea level:	Not Reported
Note:	Not Reported		

7
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000134236**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008S003W01Q001S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

B8
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000134304**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007S003W35K002S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

9
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000134295**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007S003W35K005S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
10 **NNW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**7884**

Seq:	7884	Prim sta c:	07S/03W-26R03 S
Frds no:	3310038012	County:	33
District:	14	User id:	WAT
System no:	3310038	Water type:	G
Source nam:	WELL 106	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	333131.0	Longitude:	1170913.0
Precision:	2	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310038	System nam:	Rancho California Water District
Hqname:	Not Reported	Address:	P.O. Box 9017
City:	Temecula	State:	CA
Zip:	92589	Zip ext:	Not Reported
Pop serv:	68900	Connection:	20396
Area serve:	RANCHO CALIFORNIA		

Sample date:	29-NOV-17	Finding:	2.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-APR-17	Finding:	430.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-APR-17	Finding:	7.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-MAR-17	Finding:	8.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-FEB-17	Finding:	8.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	04-JAN-17	Finding:	5.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	04-JAN-17	Finding:	400.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	05-DEC-16	Finding:	6.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	16-NOV-16	Finding:	5.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	11-OCT-16	Finding:	430.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	11-OCT-16	Finding:	7.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-SEP-16	Finding:	6.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-AUG-16	Finding:	6.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	25-JUL-16	Finding:	190.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	25-JUL-16	Finding:	410.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUL-16	Finding:	0.68
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	25-JUL-16	Finding:	760.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	25-JUL-16	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-JUL-16	Finding:	82.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUL-16	Finding:	100.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUL-16	Finding:	2.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	25-JUL-16	Finding:	68.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUL-16	Finding:	25.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUL-16	Finding:	1.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUL-16	Finding:	120.
Chemical:	SODIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	25-JUL-16	Finding:	1.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUL-16	Finding:	120.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	25-JUL-16	Finding:	61.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	25-JUL-16	Finding:	0.3
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	25-JUL-16	Finding:	6.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	25-JUL-16	Finding:	85.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	25-JUL-16	Finding:	290.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	21-JUL-16	Finding:	2.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-JUL-16	Finding:	440.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	21-JUL-16	Finding:	6.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	12-OCT-15	Finding:	6.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	12-OCT-15	Finding:	420.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	02-SEP-15	Finding:	6.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-AUG-15	Finding:	5.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	28-JUL-15	Finding:	6.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	28-JUL-15	Finding:	390.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	22-APR-15	Finding:	410.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	22-APR-15	Finding:	6.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	10-MAR-15	Finding:	6.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	04-FEB-15	Finding:	4.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	21-JAN-15	Finding:	640.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	21-JAN-15	Finding:	6.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-OCT-14	Finding:	310.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	5.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-14	Finding:	320.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-14	Finding:	20.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-APR-14	Finding:	6.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-APR-14	Finding:	400.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	13-MAR-14	Finding:	7.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	04-FEB-14	Finding:	7.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-JAN-14	Finding:	1.98
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L

Dlr:	0.		
Sample date:	07-JAN-14	Finding:	1.73
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	18-DEC-13	Finding:	7.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-OCT-13	Finding:	9.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-OCT-13	Finding:	380.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	06-SEP-13	Finding:	4.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-AUG-13	Finding:	7.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-JUL-13	Finding:	5.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-JUL-13	Finding:	400.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUN-13	Finding:	7.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	11-JUN-13	Finding:	1.5
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	01-MAY-13	Finding:	6.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-MAY-13	Finding:	250.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	01-MAY-13	Finding:	420.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	9.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-MAY-13	Finding:	0.6
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

Sample date:	01-MAY-13	Finding:	120.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	1.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	120.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	1.4
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	22.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	62.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	100.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	83.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	8.4
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	730.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	56.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	04-APR-13	Finding:	8.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	04-APR-13	Finding:	360.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	06-MAR-13	Finding:	5.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	28-FEB-13	Finding:	6.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	17-JAN-13	Finding:	440.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L

Dlr:	0.		
Sample date:	17-JAN-13	Finding:	5.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-NOV-12	Finding:	7.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-OCT-12	Finding:	380.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-JUL-12	Finding:	6.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-JUL-12	Finding:	330.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	05-JUN-12	Finding:	5.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-MAY-12	Finding:	4.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-APR-12	Finding:	430.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	09-APR-12	Finding:	6.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-MAR-12	Finding:	7.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-FEB-12	Finding:	6.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	31-JAN-12	Finding:	430.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	31-JAN-12	Finding:	5.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

11
SSE **CA WELLS** **8638**
1/2 - 1 Mile
Higher

Seq:	8638	Prim sta c:	08S/03W-01B01 S
Frds no:	3310038040	County:	33

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

District:	14	User id:	WAT
System no:	3310038	Water type:	G
Source nam:	WELL 137 (235)	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	333024.0	Longitude:	1170839.0
Precision:	2	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310038	System nam:	Rancho California Water District
Hqname:	Not Reported	Address:	P.O. Box 9017
City:	Temecula	State:	CA
Zip:	92589	Zip ext:	Not Reported
Pop serv:	68900	Connection:	20396
Area serve:	RANCHO CALIFORNIA		

Sample date:	07-FEB-18	Finding:	210.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	08-NOV-17	Finding:	220.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	08-NOV-17	Finding:	3.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	04-AUG-17	Finding:	24.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		

Sample date:	04-AUG-17	Finding:	3.5
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		

Sample date:	04-AUG-17	Finding:	220.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	04-AUG-17	Finding:	7.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	04-AUG-17	Finding:	0.4
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

Sample date:	04-AUG-17	Finding:	8.6
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	04-AUG-17	Finding:	48.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	04-AUG-17	Finding:	1.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	04-AUG-17	Finding:	67.

Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-AUG-17	Finding:	10.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-AUG-17	Finding:	29.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	04-AUG-17	Finding:	3.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-AUG-17	Finding:	5.6
Chemical:	CARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	04-AUG-17	Finding:	78.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	04-AUG-17	Finding:	83.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	04-AUG-17	Finding:	8.5
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	04-AUG-17	Finding:	380.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	02-MAY-17	Finding:	220.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-FEB-17	Finding:	230.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	02-NOV-16	Finding:	210.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	02-NOV-16	Finding:	3.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-AUG-16	Finding:	230.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	11-MAY-16	Finding:	210.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	10-FEB-16	Finding:	240.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	17-NOV-15	Finding:	240.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-15	Finding:	190.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	14-MAY-15	Finding:	230.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	04-FEB-15	Finding:	110.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	12-AUG-14	Finding:	2.8
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	07-AUG-14	Finding:	190.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-14	Finding:	3.1
Chemical:	CHROMIUM (TOTAL)	Report units:	UG/L
Dlr:	10.		
Sample date:	07-AUG-14	Finding:	5.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-AUG-14	Finding:	0.4
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	07-AUG-14	Finding:	8.9
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	07-AUG-14	Finding:	51.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-14	Finding:	1.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-14	Finding:	68.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-14	Finding:	9.4
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-14	Finding:	27.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-14	Finding:	110.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L

Dlr:	0.		
Sample date:	07-AUG-14	Finding:	8.5
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-AUG-14	Finding:	88.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-AUG-14	Finding:	370.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	20-MAY-14	Finding:	180.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	05-FEB-14	Finding:	200.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	07-NOV-13	Finding:	250.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	10-SEP-13	Finding:	1.49
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-SEP-13	Finding:	1.64
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	10-SEP-13	Finding:	220.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	02-MAY-13	Finding:	200.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	10-FEB-13	Finding:	230.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	02-NOV-12	Finding:	220.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	09-AUG-12	Finding:	200.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-MAY-12	Finding:	220.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	09-FEB-12	Finding:	200.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Map ID Direction Distance Elevation	Database	EDR ID Number
B12 **West** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000134310**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007S003W35K003S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1968-04-01
Feet below surface:	6.00	Feet to sea level:	Not Reported
Note:	Not Reported		

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13 **South** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000134216**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008S003W01P001S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	30
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

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14 **NNW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**7882**

Seq:	7882	Prim sta c:	07S/03W-26J01 S
Frds no:	3310038013	County:	33
District:	14	User id:	WAT
System no:	3310038	Water type:	G
Source nam:	WELL 107 - INACTIVE	Station ty:	WELL/AMBNT
Latitude:	333135.0	Longitude:	1170909.0
Precision:	2	Status:	IR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310038	System nam:	Rancho California Water District

Hqname:	Not Reported	Address:	P.O. Box 9017
City:	Temecula	State:	CA
Zip:	92589	Zip ext:	Not Reported
Pop serv:	68900	Connection:	20396
Area serve:	RANCHO CALIFORNIA		

C15
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000134380**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007S003W25N001S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1968-04-01
Feet below surface:	41.00	Feet to sea level:	Not Reported
Note:	Not Reported		

C16
North
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000003532**

State Well #:	07S03W25N001S	Station ID:	30234
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Temecula Valley	Well Completion Rpt #:	Not Reported

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D17
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000134307**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007S003W35K001S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	40
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1968-04-01
Feet below surface:	10.00	Feet to sea level:	Not Reported

Note: Not Reported

E18
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000134376**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007S003W26R002S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19570101	Well Depth:	483
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

F19
SSE
1/2 - 1 Mile
Lower

FED USGS **USGS40000134214**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008S003W12Z001S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

D20
West
1/2 - 1 Mile
Lower

CA WELLS **CADWR8000003485**

State Well #:	07S03W35K001S	Station ID:	9278
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Temecula Valley	Well Completion Rpt #:	Not Reported

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D21
West
1/2 - 1 Mile
Lower

CA WELLS **CADWR8000003487**

State Well #:	07S03W35K003S	Station ID:	9279
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Temecula Valley	Well Completion Rpt #:	Not Reported

Map ID Direction Distance Elevation	Database	EDR ID Number
E22 **NNW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000134381**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007S003W26R001S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	50
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1968-04-01
Feet below surface:	30.00	Feet to sea level:	Not Reported
Note:	Not Reported		

F23 **South** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR8000003411**

State Well #:	08S03W12C001S	Station ID:	12709
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Temecula Valley	Well Completion Rpt #:	Not Reported

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G24 **NW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000134357**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007S003W35B001S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19300101	Well Depth:	502
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1968-02-01
Feet below surface:	25.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
F25 **SSE** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000134206**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008S003W12C001S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	53
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1967-10-01
Feet below surface:	44.00	Feet to sea level:	Not Reported
Note:	Not Reported		

F26 **SSE** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000134207**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008S003W12C002S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19110101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

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27 **NNW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR8000003533**

State Well #:	07S03W26R001S	Station ID:	30236
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Temecula Valley	Well Completion Rpt #:	Not Reported

Map ID Direction Distance Elevation	Database	EDR ID Number
G28 **NW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR8000003516**

State Well #:	07S03W35B001S	Station ID:	9273
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Temecula Valley	Well Completion Rpt #:	Not Reported

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H29 **WSW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000134279**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007S003W35P003S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

G30 **NW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000134361**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007S003W35B002S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	158
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1968-02-01
Feet below surface:	24.00	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
31 **SSE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000134204**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	008S003W12B001S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

I32 **WNW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000134332**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007S003W35F002S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19620101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1968-04-01
Feet below surface:	15.00	Feet to sea level:	Not Reported
Note:	Not Reported		

H33 **West** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000134282**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007S003W35P001S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19140101	Well Depth:	216
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
G34 **NW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000134365**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007S003W26Q001S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19620101	Well Depth:	450
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1968-02-01
Feet below surface:	21.00	Feet to sea level:	Not Reported
Note:	Not Reported		

I35 **WNW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000134330**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007S003W35F001S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	120
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1968-04-01
Feet below surface:	13.00	Feet to sea level:	Not Reported
Note:	Not Reported		

J36 **NW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR8000003519**

State Well #:	07S03W35B002S	Station ID:	9274
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Temecula Valley	Well Completion Rpt #:	Not Reported

Map ID Direction Distance Elevation	Database	EDR ID Number
I37 **WNW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR8000003499**

State Well #:	07S03W35F002S	Station ID:	9277
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Temecula Valley	Well Completion Rpt #:	Not Reported

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38 **SSW** **1/2 - 1 Mile** **Lower**		**CA WELLS**	**8641**

Seq:	8641	Prim sta c:	08S/03W-02Q01 S
Frds no:	3310038010	County:	33
District:	14	User id:	WAT
System no:	3310038	Water type:	G
Source nam:	WELL 102	Station ty:	WELL/AMBNT
Latitude:	333011.0	Longitude:	1170909.0
Precision:	2	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310038	System nam:	Rancho California Water District
Hqname:	Not Reported	Address:	P.O. Box 9017
City:	Temecula	State:	CA
Zip:	92589	Zip ext:	Not Reported
Pop serv:	68900	Connection:	20396
Area serve:	RANCHO CALIFORNIA		

Sample date:	31-MAY-13	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		

Sample date:	31-MAY-13	Finding:	1.1
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		

Sample date:	31-MAY-13	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		

Sample date:	31-MAY-13	Finding:	130.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	31-MAY-13	Finding:	160.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		

Sample date:	31-MAY-13	Finding:	130.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	31-MAY-13	Finding:	51.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	31-MAY-13	Finding:	1.7
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	31-MAY-13	Finding:	180.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	31-MAY-13	Finding:	1.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	31-MAY-13	Finding:	150.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	31-MAY-13	Finding:	160.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	31-MAY-13	Finding:	0.3
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	31-MAY-13	Finding:	3.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	31-MAY-13	Finding:	250.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	31-MAY-13	Finding:	600.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	31-MAY-13	Finding:	200.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	31-MAY-13	Finding:	640.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	31-MAY-13	Finding:	0.68
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	31-MAY-13	Finding:	0.89
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	31-MAY-13	Finding:	1100.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

Map ID Direction Distance Elevation	Database	EDR ID Number
K39 **NNW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000134405**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007S003W25M002S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	562
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

I40 **WNW** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000134340**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007S003W35C001S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	500
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

K41 **NNW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**7880**

Seq:	7880	Prim sta c:	07S/03W-25E02 S
Frds no:	3310038014	County:	33
District:	14	User id:	WAT
System no:	3310038	Water type:	G
Source nam:	WELL 108	Station ty:	WELL/AMBNT
Latitude:	333147.0	Longitude:	1170907.0
Precision:	2	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310038	System nam:	Rancho California Water District
Hqname:	Not Reported	Address:	P.O. Box 9017
City:	Temecula	State:	CA
Zip:	92589	Zip ext:	Not Reported
Pop serv:	68900	Connection:	20396

Area serve: RANCHO CALIFORNIA

J42
NW
1/2 - 1 Mile
Lower

CA WELLS **CADWR8000003523**

State Well #:	07S03W26Q001S	Station ID:	9109
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Temecula Valley	Well Completion Rpt #:	Not Reported

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L43
NE
1/2 - 1 Mile
Higher

CA WELLS **CADWR8000003522**

State Well #:	07S03W25R001S	Station ID:	9107
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Temecula Valley	Well Completion Rpt #:	Not Reported

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K44
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR8000003555**

State Well #:	Not Reported	Station ID:	48788
Well Name:	RCWD 493	Well Use:	Observation
Well Type:	Single Well	Well Depth:	610
Basin Name:	Temecula Valley	Well Completion Rpt #:	Not Reported

---

45
WNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR8000003497**

State Well #:	07S03W35F001S	Station ID:	9276
Well Name:	Not Reported	Well Use:	Unknown
Well Type:	Unknown	Well Depth:	0
Basin Name:	Temecula Valley	Well Completion Rpt #:	Not Reported

---

L46
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000134364**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007S003W25R001S	Type:	Well
Description:	Not Reported	HUC:	18070302
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	130
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1968-02-01
Feet below surface:	73.00	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92591	9	0

Federal EPA Radon Zone for RIVERSIDE County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for RIVERSIDE COUNTY, CA

Number of sites tested: 12

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.117 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.450 pCi/L	100%	0%	0%
Basement	1.700 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 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[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

APPENDIX D: QUALIFICATIONS

PARTNER

Jared Eudell
Staff Scientist

Education

M.S., Systems Science; B.S., Environmental Studies; B.S., Marine Biology, Fairleigh Dickinson University

Registrations

Certified Recycling Professional, Rutgers University (expired)
Sustainable Resource Management Professional, Rutgers University (expired)
Wetlands Delineator, Rutgers University

Training

OSHA 40-Hour Hazardous Waste Operations & Emergency Responder (HAZWOPER)
AHERA Building Inspector

Highlights

Completed over 350 Phase I Environmental Site Assessments (ESAs) and related due diligence projects
3 years conducting site remediation activities for soil, groundwater and vapor intrusion
5 years providing regulatory compliance assistance, including Underground Storage Tanks, stormwater permitting, Spill Prevention Control and Countermeasures, solid and hazardous waste, and recycling
9 years performing watershed education, advocacy, and promoting government cooperation

Experience Summary

Mr. Eudell currently holds the title of Staff Scientist with responsibilities including the practice of thorough site assessments and technical report writing in line with the American Society of Testing and Materials (ASTM) standards and US Environmental Protection Agency's All Appropriate Inquiry (AAI) requirements, as well as customized client formats. Mr. Eudell also assists the Geotechnical and Subsurface Investigation disciplines with local logistical and field support and consults on projects that require knowledge of Spill Prevention Control and Countermeasure (SPCC) Plans, specialized site mitigation or permit compliance, and Geographic Information Systems (GIS).

Mr. Eudell formerly supported the Site Mitigation and Phase II Site Investigation teams with the monitoring and remediation of contaminated soil, groundwater and soil vapor from a variety of sites throughout the Mid-Atlantic region, including large colleges, hospitals and landfills. Project sites have ranged from mountainous terrain with shallow bedrock to coastal sites with sandy soils and shallow groundwater to active and former landfills. These projects often involve investigation and analysis for multiple current and historical areas of concern and require regular groundwater and vapor migration monitoring. Therefore, Mr. Eudell has extensive experience with low-flow purging techniques and managed the Quality Assurance and NJ Laboratory Accreditation program to maintain the operations. In addition to the field work and reporting, Mr. Eudell provided GIS and other analytical services to perform sensitive human and environmental receptor evaluations, groundwater flow and cross section diagrams and related analyses.

As part of the former Environmental Regulatory Compliance and Permitting group, Mr. Eudell was also responsible for providing consulting services to municipal, county, and state agencies, utility authorities, and other public and private clientele. These services spanned a wide array of regulatory programs and required comprehensive knowledge of NJPDES and stormwater permitting, underground storage tank

identification, maintenance and compliance requirements, air emission limits and reporting requirements, solid waste issues and recycling enhancement, and hazardous waste identification and training.

Mr. Eudell previously spent nine years as an environmental advocate and educator in northeast New Jersey, where, in cooperation with local, state, and federal governments and agencies helped local stakeholders, non-profit organizations, and academic and scientific institutions secure the preservation and restoration of numerous natural resources.

Mr. Eudell has presented hundreds of presentations to schools, organizations, government bodies and the general public, and was a guest lecturer at Fairleigh Dickinson University for ten years.

Project Experience

Phase I Environmental Site Assessments, Multiple Property Types, Nationally. Mr. Eudell has performed hundreds of due diligence assessments (Phase I ESAs, Transaction Screens and Environmental Database Reviews) for a variety of property types including multi-family residences, commercial office buildings, retail shopping centers, dry-cleaners, colleges, manufacturing plants, machine shops, auto repair facilities, gasoline service stations and distribution facilities.

Site Mitigation, Multiple Sites*, NJ, NY and PA.* Mr. Eudell has assisted with over 50 remediation projects, including Preliminary Assessments, Phase II Subsurface Investigations, ongoing soil and groundwater monitoring and remediation. For example, Mr. Eudell has assisted with identification and delineation of unauthorized releases from USTs, dry cleaners, and other on- and off-site sources at a restaurant in Clayton, NJ, a car dealership in Edison, NJ an amusement park in Freehold, NJ, a hospital in Wayne, NJ, colleges in Hoboken, NJ, and Jersey City, NJ, industrial sites in Rutherford, NJ, Rochelle Park, NJ, Woodbridge, NJ, etc., and a dry cleaner in Whitehouse, PA. Mr. Eudell has also conducted groundwater and vapor migration sampling at landfills in Hillsdale, NJ, Howell, NJ, Lakewood, NJ and others,

Regulatory Compliance/Risk Management, NJ Municipal Environmental Risk Management Fund, 370 Entities, NJ. Mr. Eudell helped coordinate environmental Loss Control/Loss Prevention Programs for over 370 municipal and utility authority members of the New Jersey Environmental Risk Management Fund (EJIF). Major responsibilities included conducting environmental audits of publically-owned properties to evaluate both applicability and compliance with various regulations (underground storage tanks, SPCC, stormwater, air emissions, solid waste/recycling, etc.), and providing assistance and resources to members during and after environmental emergencies.

USEPA Spill Prevention, Control and Countermeasure Plan (SPCC), Multiple Clients, Nationally. Mr. Eudell has worked with multiple health care systems (Meridian Health Village, Jackson, NJ and Trinitas Medical Center, Elizabeth, NJ) and dozens of municipalities and business to evaluate, and revise as necessary, current storage vessels, containment systems, operating procedures and emergency response plans to achieve minimal compliance with the SPCC Rule. Current conditions and recommendations for compliance are incorporated into a complete SPCC Plan to comply with federal requirements.

Solid Waste and Recycling, Multiple Clients, NJ. Mr. Eudell has worked with Union County, the Essex County Utilities Authority, and dozens of municipalities to enhance municipal solid waste (MSW) recycling rates by developing new programs and providing assistance to municipal recycling coordinators. Responsibilities

have included: communicating with regulatory agencies and representing clients and their interests at meetings and seminars. Projects have included: preparing updates to Solid Waste Management Plans; auditing solid waste collection programs and generating budget analyses to derive cost-saving recycling alternatives; permitting Class A (MSW), Class B (bulky debris), and Class C (compost) facilities; providing oversight and analysis for household hazardous waste collection events; auditing commercial buildings and multi-family dwellings to assess recycling compliance; reviewing ordinances and tonnage reports; and grant writing and implementation.

NJPDES/Municipal Stormwater Regulation Program, Multiple Clients, NJ. Mr. Eudell has provided stormwater planning, permitting, and compliance services, including the development and implementation of Stormwater Pollution Prevention Plans for such clients as Freehold Cartage, Inc. (Freehold, NJ), Linden Landfill (Linden, NJ) and Bayshore Recycling Corporation (Keasbey, NJ) as well as the municipalities of Belmar, East Hanover, Emerson, North Plainfield, Ramsey, Secaucus and the County of Monmouth. Services have included desk audits, stormwater mapping and pipe/discharge evaluations; stormwater discharge sampling; trainings/presentations to officials and public audiences; development of educational and outreach programs and materials; review of ordinances; and completion of annual reports.

Affiliations

Association of New Jersey Recycling Professionals (ANJR)
New Jersey WasteWise Business Network

Speaking

Seven Generations, "The Human Environment," Fairleigh Dickinson University, Hackensack, NJ (2005-2015). Discussed the contextual history of the environmental movement over the previous 2500 years; the interaction, influences and costs of modern life on our environmental and the connection between our choices and our future.

Regulatory Training, NJ Municipal Environmental Risk Management Fund Training Seminars, Multiple Venues, NJ (2006, 2007, 2009, 2010, 2011, 2012). Discussed the many Federal and State regulatory programs that affect the operations, equipment and personnel of municipal and utility authority entities. Problems, solutions and discussion were provided.

Developing and Implementing a New Monitoring Program, NJDEP Volunteer Monitoring Summit, Edison, NJ (2004). Detailed the basis and pitfalls of establishing a volunteer water monitoring program and the interconnectivity of the many pieces of the puzzle, including funding, materials, volunteers, logistics, data quality, etc.

Contact

jeudell@partneresi.com

Brittney Eugenio
Project Manager

Education
B.A., in Environmental Studies, University of California, Santa Barbara, CA
Minor in Professional Writing with an emphasis in Business Communication

Registrations
AHERA Certified Asbestos Building Inspector

Training
Asbestos Building Inspector Initial Course

Highlights
Over 5 years in the environmental consulting industry
Over 5 years of experience performing due diligence assessments including Phase I Environmental Site Assessments, Transaction Screen Assessments and Environmental Desktop Reports

Experience Summary
Ms. Eugenio currently holds the role of a Project Manager and her responsibilities include managing and performing Phase I Environmental Site Assessments in line with the American Society of Testing and Materials (ASTM) standard and US Environmental Protection Agency's All Appropriate Inquiry (AAI) as well as customized client formats. In addition, Ms. Eugenio performs limited asbestos surveys, lead-based paint surveys and radon testing as required per scope of work. Ms. Eugenio also serves as a technical reviewer on environmental due diligence assessments.

Ms. Eugenio has worked on numerous large scope projects including gas stations, dry cleaners, manufacturing sites, industrial/warehouse facilities, hotels, office buildings, retail shopping centers, machine shops, auto repair facilities, cell phone data towers and associated land, recycling facilities, and multi-use commercial/residential buildings.

Project Experience
Ms. Eugenio has over five years of experience performing due diligence assessments for a variety of property types, as detailed above. For each assessment she reviews the condition of the building structure and systems and develops a thorough report.

Laguna Serrano Apartments, Laguna Niguel, CA. Ms. Eugenio performed a Phase I Environmental Assessment for a 336-unit multi-family apartment complex on a 21.9 acre lot.

Porsche Motorsport North America, Santa Ana, CA. Ms. Eugenio performed a Phase I Environmental Assessment for a sports car engine and gear box assembly, testing and maintenance facility.

Freeway Technology Park, Irvine, CA. Ms. Eugenio performed a Phase I Environmental Assessment for a ten building multi-tenant commercial/light industrial business park on a 20.5 acre lot which was formerly developed as part of the Orange County International Raceway.

Bouquet Canyon Senior Apartments, Santa Clarita, CA. Ms. Eugenio performed a Phase I Environmental Assessment for a 264-unit senior apartment complex.

Agricultural land, Imperial County, CA. Ms. Eugenio performed a Phase I Environmental Assessment for 103.2 acres of agricultural land.

South Hills Plaza, West Covina, CA. Ms. Eugenio performed a Phase I Environmental Assessment for a 104,374 square-foot commercial retail shopping center with multiple retail stores, dental and medical offices, a gym, restaurants and an active dry cleaner.

Commercial, Los Angeles, CA. Ms. Eugenio performed a Phase I Environmental Assessment for a ten-story commercial office building in Downtown Los Angeles that was constructed in 1920.

All Car Auto Repair, Riverside, CA. Ms. Eugenio performed a Phase I Environmental Assessment for an automobile maintenance and repair facility with storage of large quantities of hazardous materials, equipped with a septic system and formerly developed as a gas station.

Contact

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